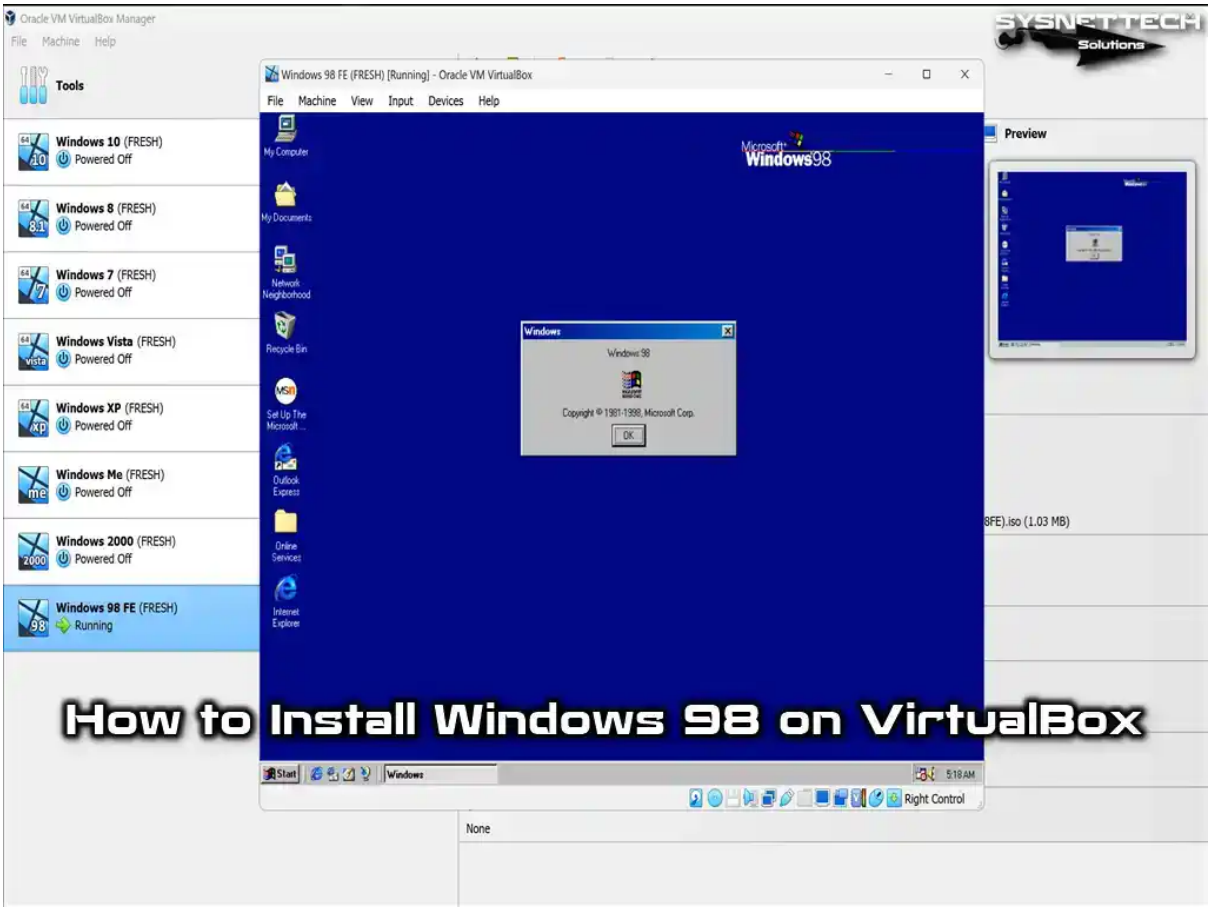
How to Install Windows 98 in VirtualBox 7.0 on Windows 11

This article will examine how to set up and configure Windows 98 FE (First Edition) on a new virtual computer using the Oracle VM VirtualBox 7.0 virtualization program on the Windows 11 or 10 operating system.



How to Set Up Windows 98 FE (First Edition) / SE (Second Edition) on Windows 10 / 11 using Oracle VM VirtualBox 7

Windows 98 is a distribution of 9x editions from Microsoft and was first officially made commercially available on June 25, 1998. It is an operating system with a graphical user interface, thus offering users easier use of icons, shortcuts, and software.

One of its most significant innovations is the FAT32 file system, which supports longer filenames and efficiently uses resources. It also facilitates the use of many peripheral devices, such as printers and scanners, by enabling faster integration of USB devices.

Windows 98 makes it easier for users to access the Internet, avoiding more complex network connection configurations.

Thanks to the user interface development, most software the developers produce is GUI-managed, but configuring some advanced settings requires using MSDOS.

Microsoft officially ended mainstream support for the Windows 98 First Edition (FE) operating system on June 30, 2002, and comprehensive support on July 11, 2006.

Windows 98 Second Edition (SE), which fixed many of the vulnerabilities and bugs of the first version, was released on May 5, 1999, but was discontinued on June 30, 2002, on this system.

Suppose you have a penchant for old operating systems. You can effectively utilize them at that juncture by leveraging virtual machine platforms such as VirtualBox or VMware. This method eliminates the need to install outdated systems on an old computer. Instead, it lets you use them on your Windows 10 or Windows 11 host computer.

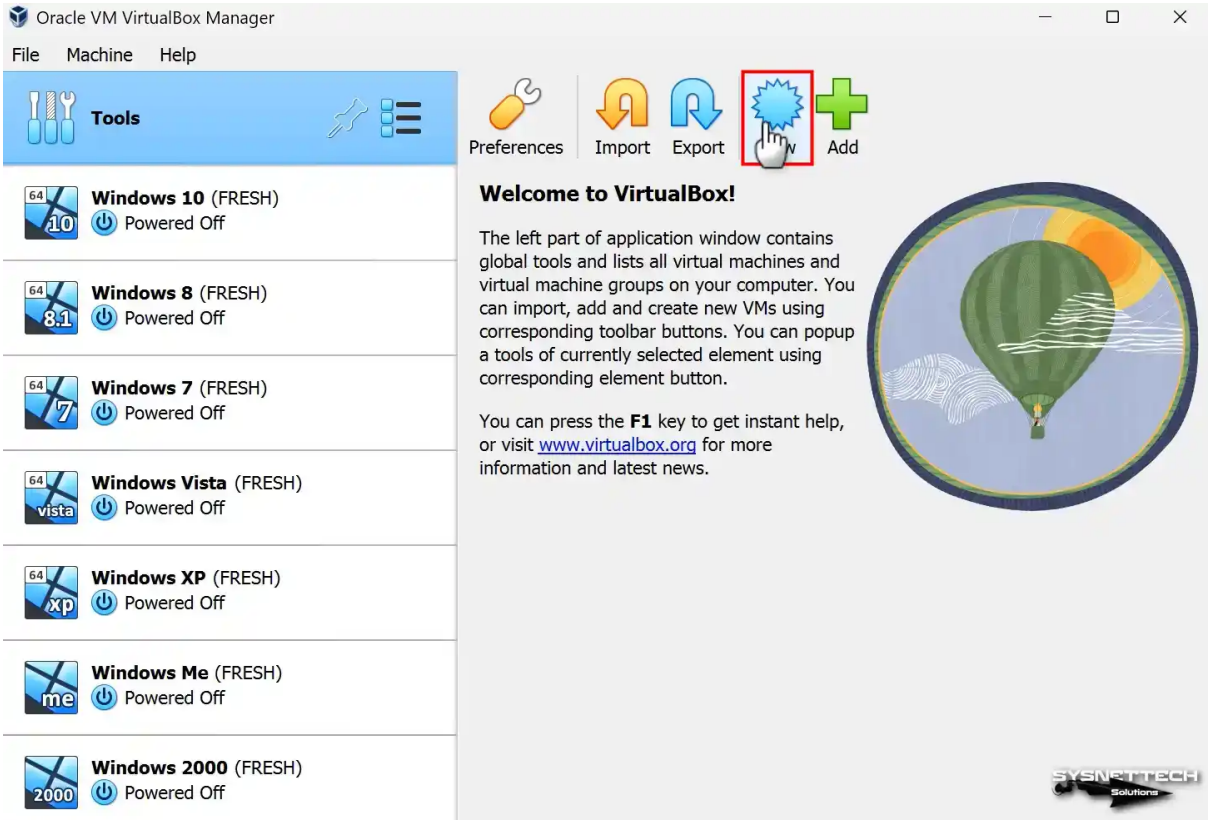
When desiring to encounter an outdated OS, one can employ virtual machine programs like VirtualBox or VMware. Consequently, instead of installing an OS on an old computer, it is feasible to utilize archaic operating systems on a Windows 10 or Windows 11 host computer.

How to Create a New Virtual Machine for Windows 98

Suppose you want to install one of the 9x versions of Windows after installing the Oracle VM VirtualBox virtualization software on your host computer. In that case, you must configure the virtual machine's settings correctly.

Step 1

After running the VirtualBox software, start the virtual machine preparation wizard by clicking the Machine / New option from the tool menu or the New icon on the right.

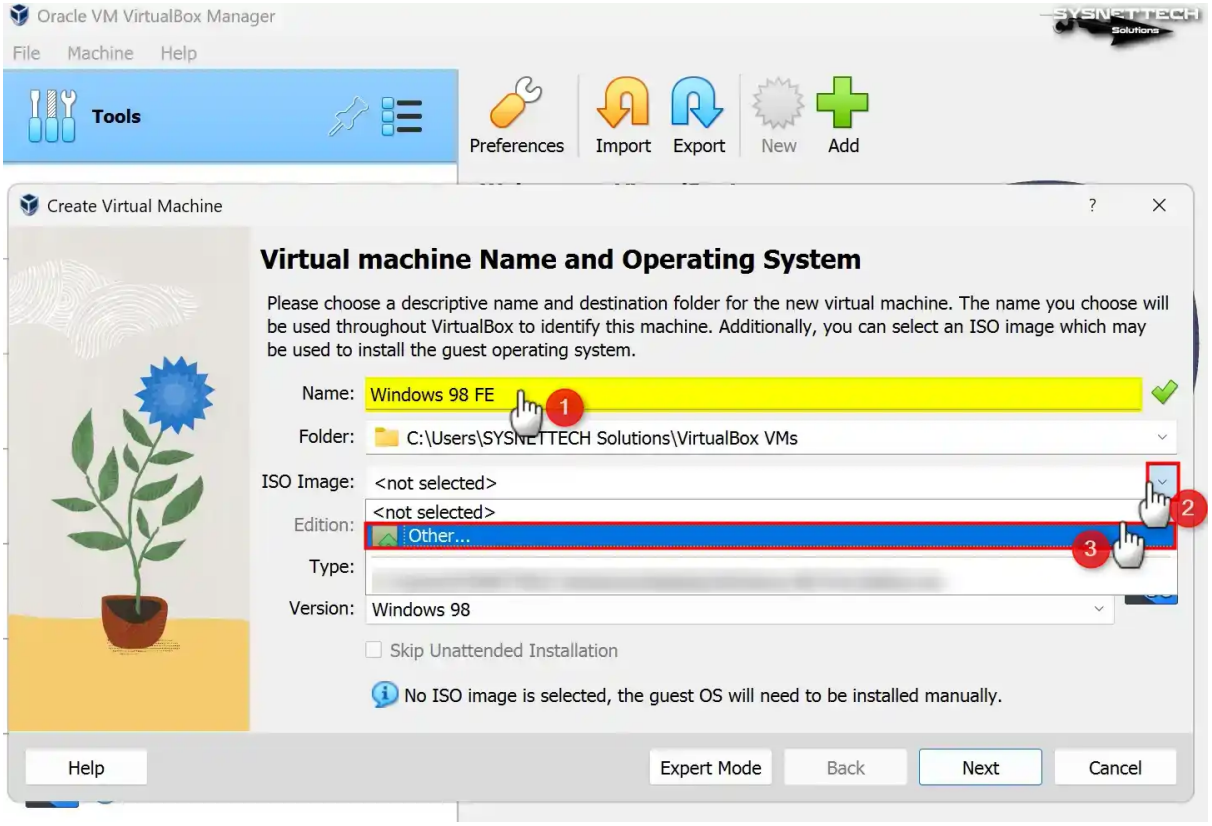

Oracle VM VirtualBox Manager
File
Machine
Help
Tools
Preferences
Import
Export
Add
Windows 10 (FRESH)
Powered Off
Windows 8 (FRESH)
Powered Off
Windows 7 (FRESH)
Powered Off
Windows Vista (FRESH)
Powered Off
Windows XP (FRESH)
Powered Off
Windows Me (FRESH)
Powered Off
Windows 2000 (FRESH)
Powered Off
Welcome to VirtualBox!
The left part of application window contains global tools and lists all virtual machines and virtual machine groups on your computer. You can import, add and create new VMs using corresponding toolbar buttons. You can popup a tools of currently selected element using corresponding element button.
You can press the F1 key to get instant help, or visit www.virtualbox.org for more information and latest news.

Step 2

After typing the operating system's name, you will install the Name field in the virtual machine wizard, and the program will automatically configure the values in the Type and Version sections.

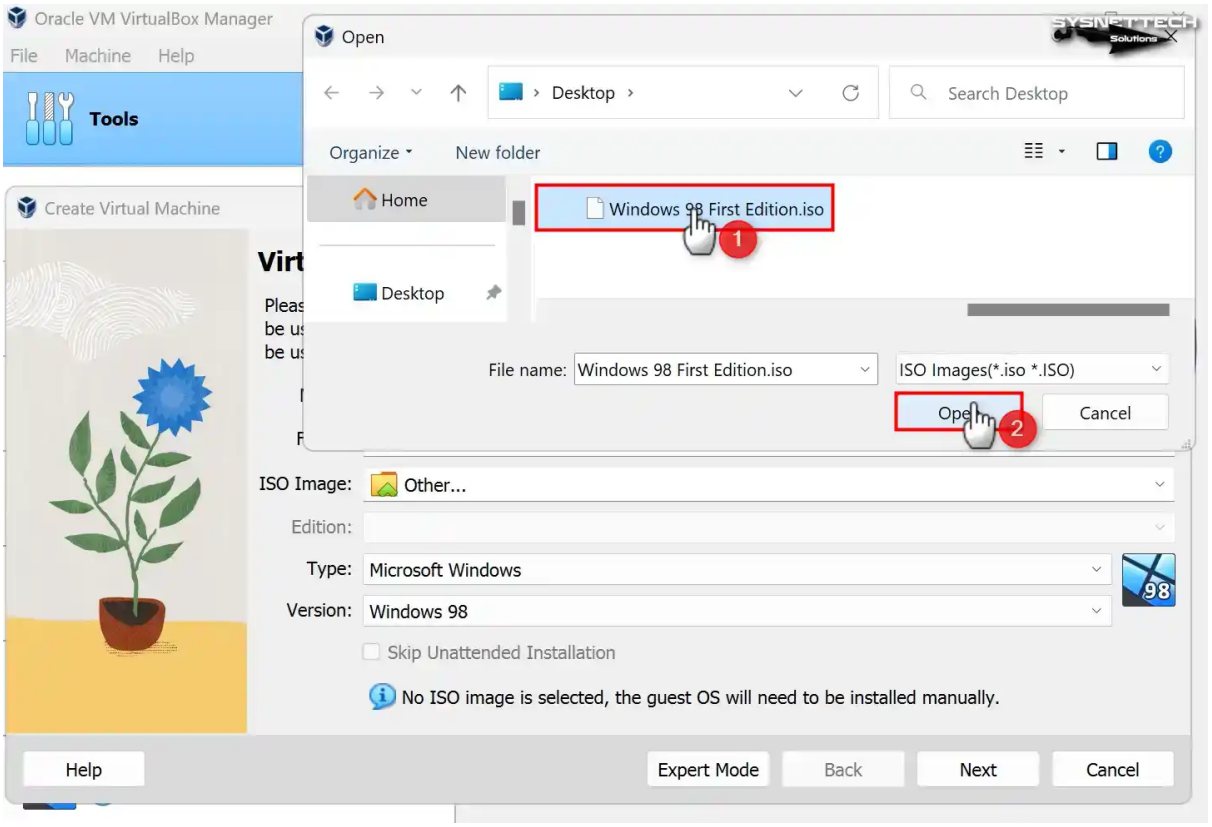
Suppose you see the 32 Bit architecture value instead of 64 Bit in the Version section while installing the more current Windows operating versions. In that case, you must manually adjust the architectural structure according to your installed OS. If you want to store the Windows 98 operating platform on your host disk, leave the Folder location as default. However, you want to fill up your host disk sparingly. In that case, locating it on an external disk may be better.

To add a Windows 98 FE (First Edition) or SE (Second Edition) ISO file to the virtual computer you are preparing, select Other from the ISO Image section.


Oracle VM VirtualBox Manager
File Machine Help
Tools
Preferences Import Export New Add
Create Virtual Machine
Virtual machine Name and Operating System
Please choose a descriptive name and destination folder for the new virtual machine. The name you choose will be used throughout VirtualBox to identify this machine. Additionally, you can select an ISO image which may be used to install the guest operating system.
Name: Windows 98 FE
Folder: C:\Users\SYSNETTECH Solutions\VirtualBox VMs
ISO Image: <not selected>
Edition: <not selected>
Other...
Type:
Version: Windows 98
Skip Unattended Installation
No ISO image is selected, the guest OS will need to be installed manually.
Help Expert Mode Back Next Cancel

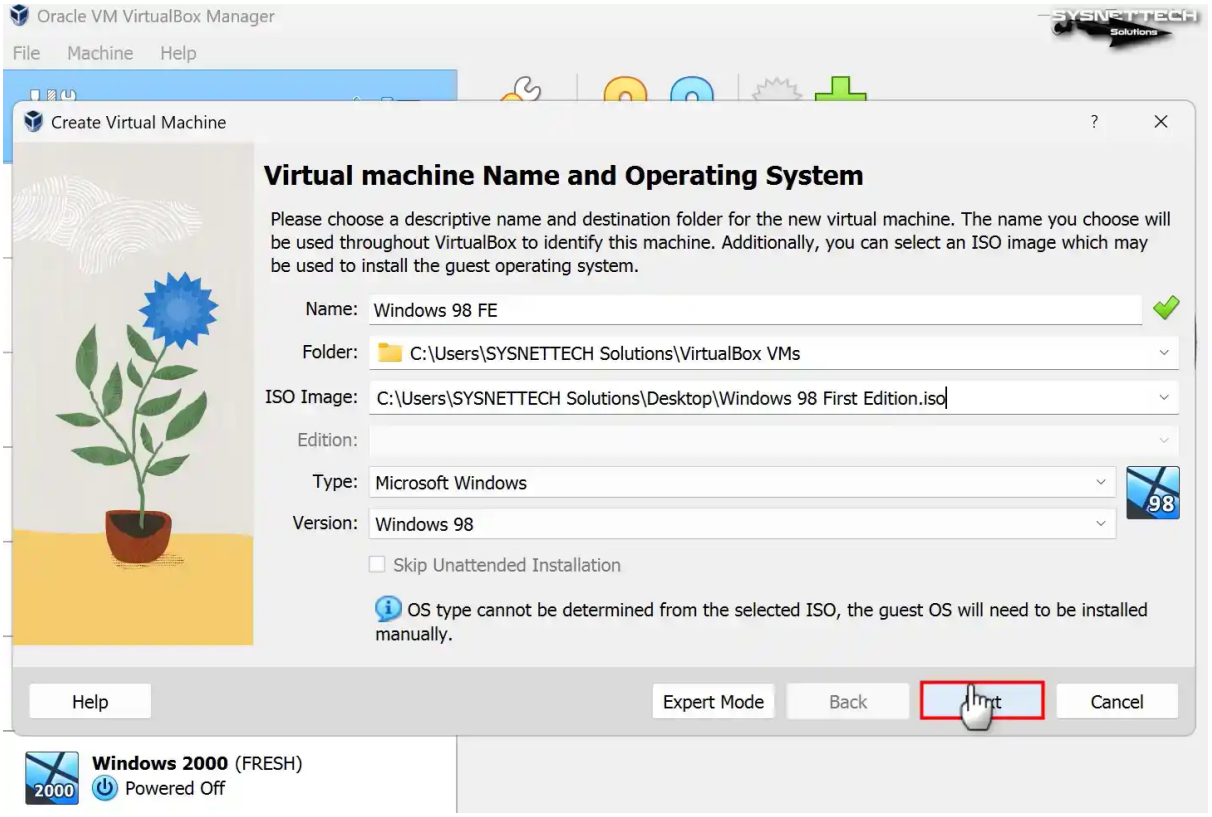
Step 3

From the table below the article, select the ISO file of the Windows 98 FE or SE platform you downloaded to your computer and add it.



Step 4

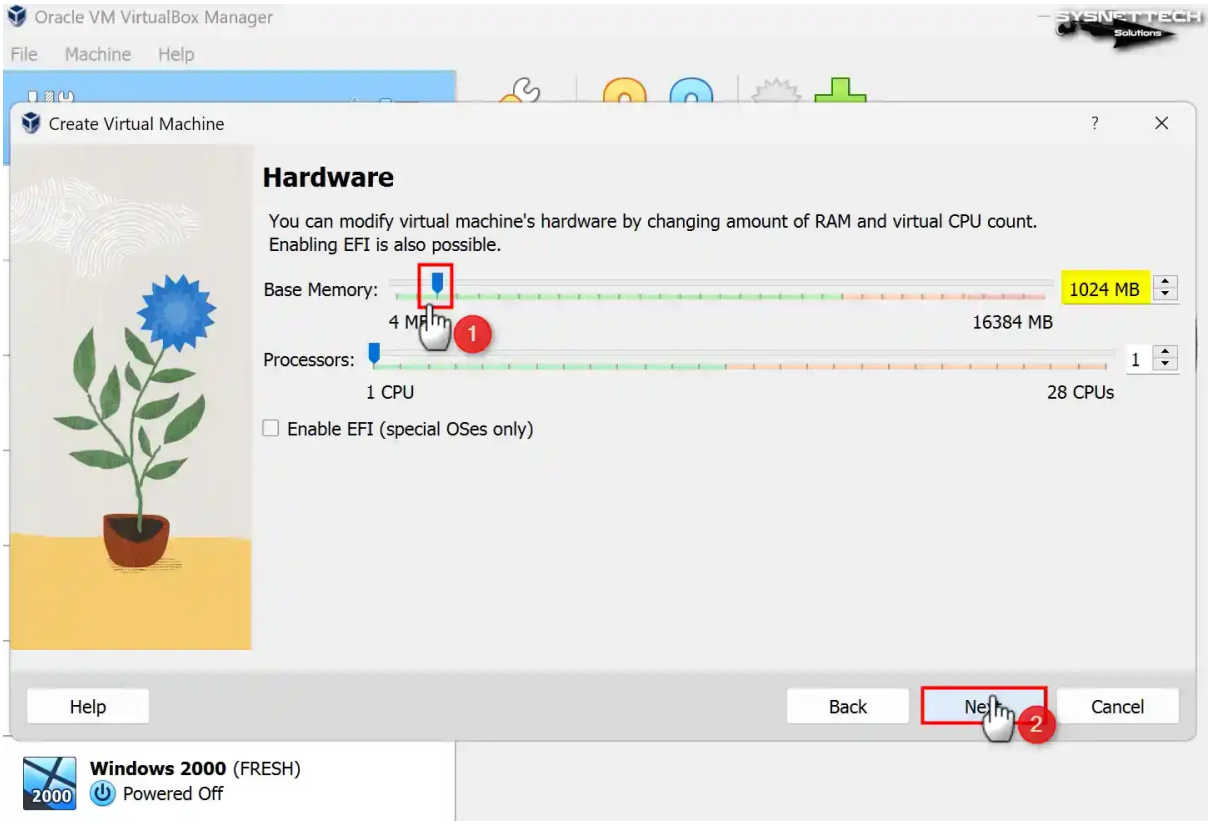
You can make faster system setups with the unattended installation feature in the VirtualBox 7.x versions. Hence, this may not be the case with older operating versions, so click Next to continue the manual setup.


Oracle VM VirtualBox Manager
File Machine Help
Create Virtual Machine
Virtual machine Name and Operating System
Please choose a descriptive name and destination folder for the new virtual machine. The name you choose will be used throughout VirtualBox to identify this machine. Additionally, you can select an ISO image which may be used to install the guest operating system.
Name: Windows 98 FE
Folder: C:\Users\SYSNETTECH Solutions\VirtualBox VMs
ISO Image: C:\Users\SYSNETTECH Solutions\Desktop\Windows 98 First Edition.iso
Edition:
Type: Microsoft Windows
Version: Windows 98
Skip Unattended Installation
OS type cannot be determined from the selected ISO, the guest OS will need to be installed manually.
Help
Expert Mode
Back
Cancel
Windows 2000 (FRESH)
Powered Off

Step 5

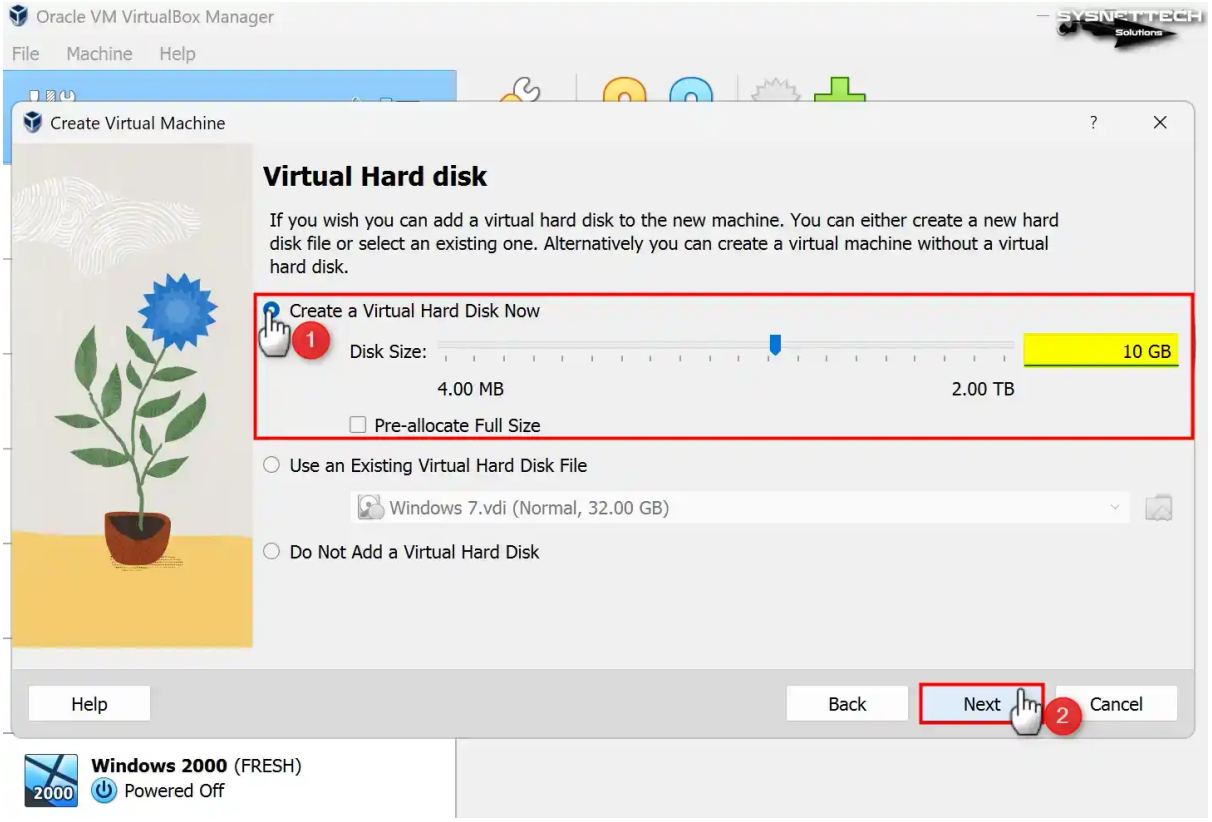
The maximum RAM size of the Windows 98 platform on a physical computer is 1.5 GB. However, you can configure a smaller RAM size for a more stable installation in the virtual machine.

In the Hardware window, in the Base Memory section, set the RAM size of 1024 MB (1 GB) for Win98 and click Next.



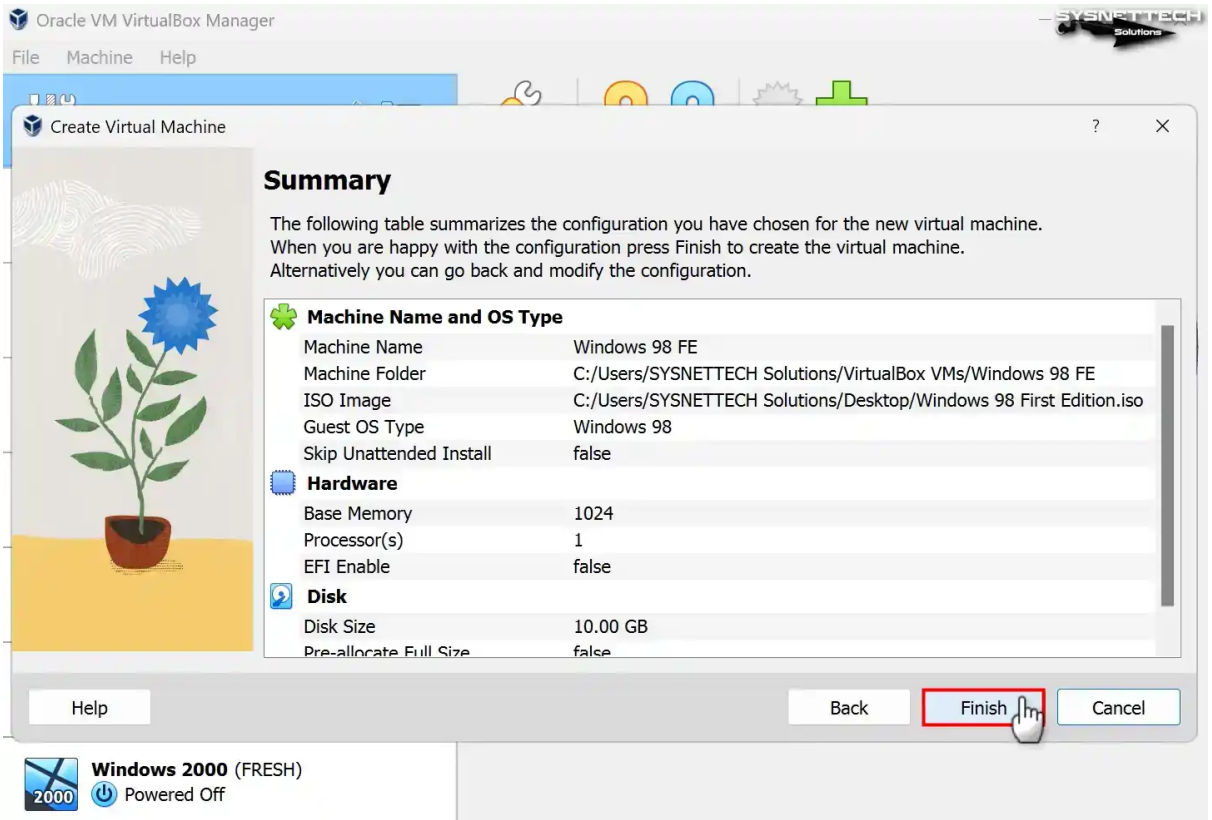
Step 6

You must create a new virtual hard disk to install a clean software platform. You can add the virtual disk through this window if a previously installed virtual machine exists. Configure a new virtual disk size of 10 GB for Win98 and click Next.


Oracle VM VirtualBox Manager
File
Machine
Help
Create Virtual Machine
Virtual Hard disk
If you wish you can add a virtual hard disk to the new machine. You can either create a new hard disk file or select an existing one. Alternatively you can create a virtual machine without a virtual hard disk.
Create a Virtual Hard Disk Now
1
Disk Size:
10 GB
4.00 MB
2.00 TB
Pre-allocate Full Size
Use an Existing Virtual Hard Disk File
Windows 7.vdi (Normal, 32.00 GB)
Do Not Add a Virtual Hard Disk
Help
Back
Next
2
Cancel
Windows 2000 (FRESH)
Powered Off

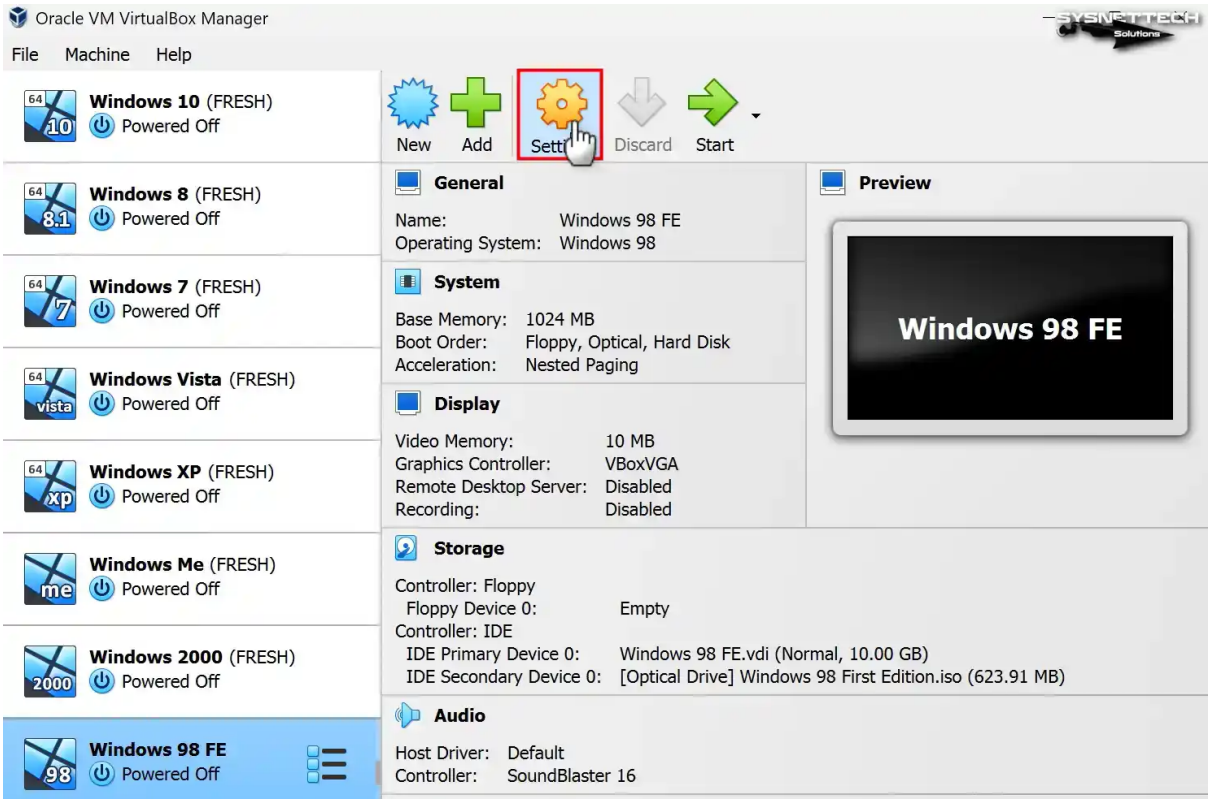
Step 7

Check the virtual hardware summary information of the Win98 guest VM you created and click Finish to close the wizard.



Step 8

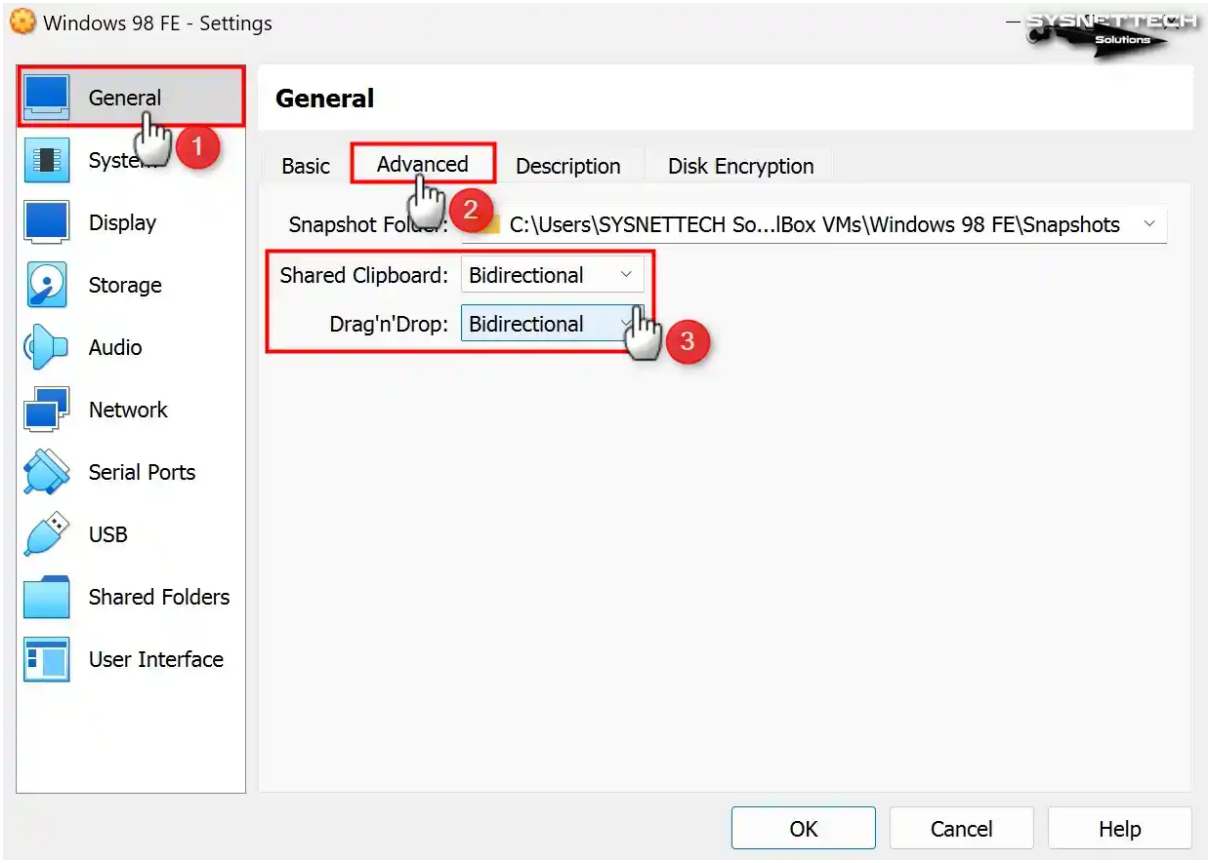
After preparing the Windows 98 virtual machine, you need to make some basic settings for performance. Therefore, click Settings before starting your virtual PC.



Step 9

You can enable Shared Clipboard and Drag’n’Drop features in the Advanced tab of the virtual machine’s General settings, but this will not work in Win98. Suppose you plan to run the virtual PC using one of the old versions of VirtualBox. In that case, you can use your guest machine more efficiently by enabling these features, as Guest Additions will be supported in a suitable version.

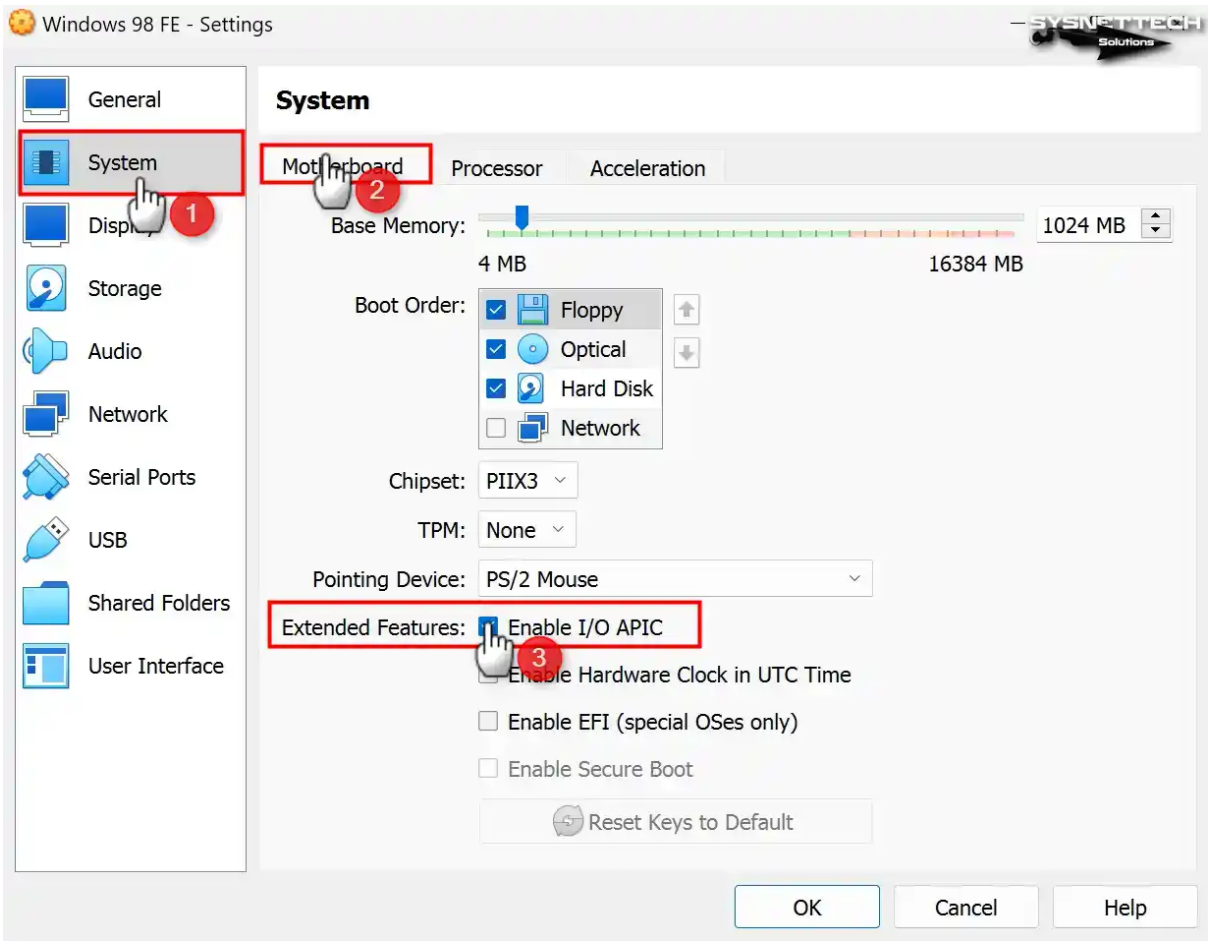
Suppose you have one of the installed VirtualBox 7.x versions on your host computer. In that case, you can skip enabling the file transfer features. We advise allowing it only for older versions, as this article suggests.



Step 10

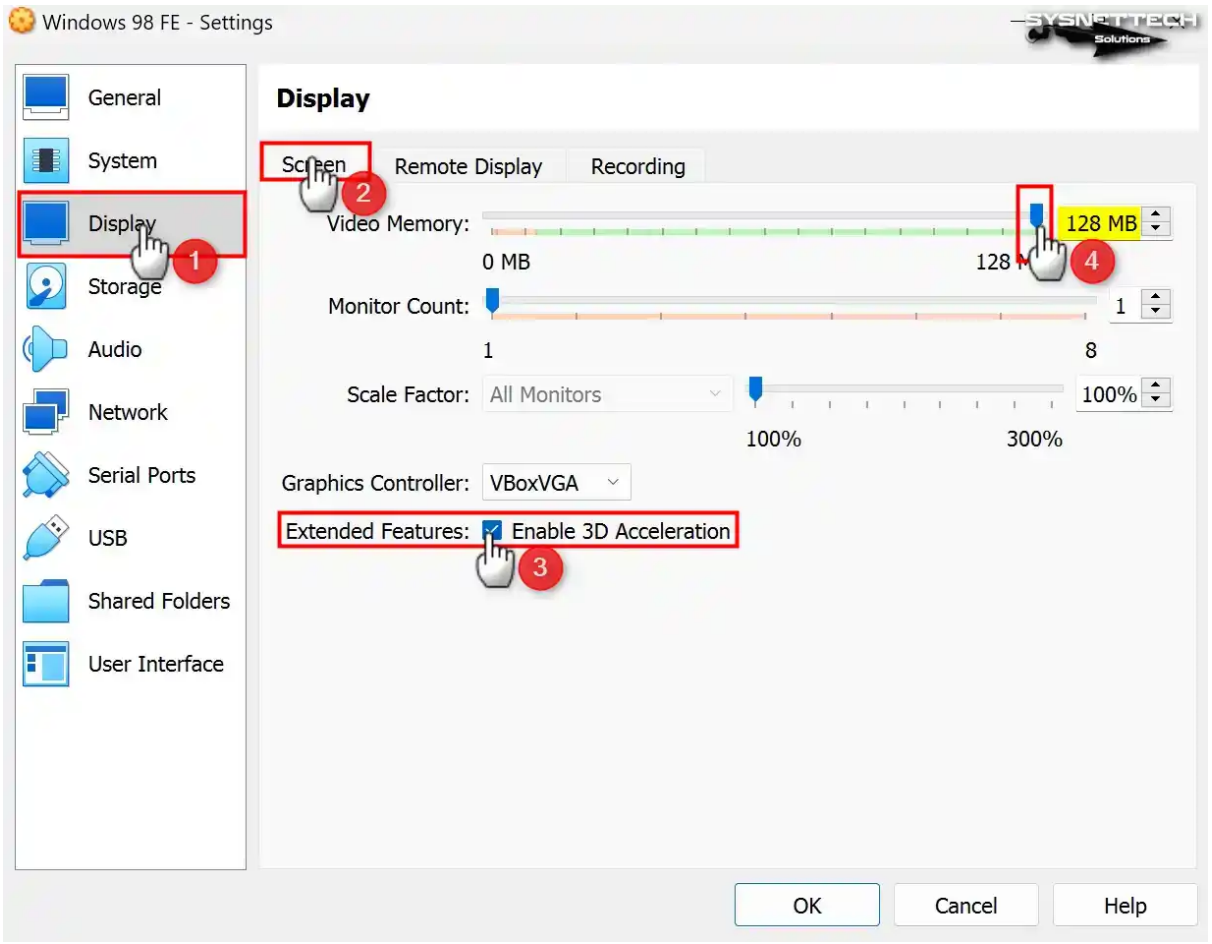
Configure the boot devices in the System / Motherboard tab in the VM's settings window and enable the I/O APIC feature to use the virtual PC more efficiently.

NOTE: If your VM is constantly failing or not installing, you can enable Nested Paging in the Acceleration tab in the settings.



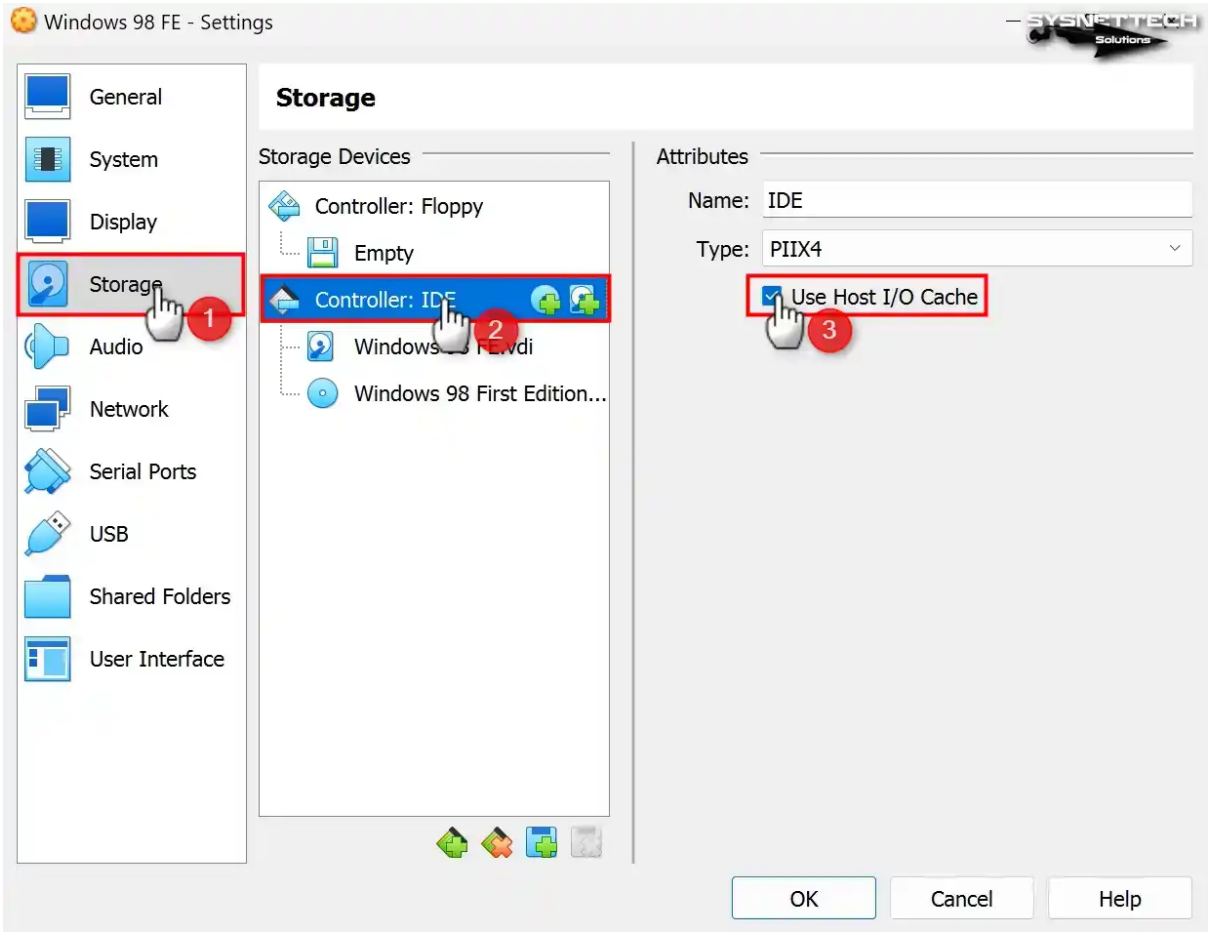
Step 11

As we mentioned, new versions of the Oracle virtualization program are not fully supported for Win98, so you may be unable to use display and 3D acceleration settings. If you use a version that fully supports Win98, enable 3D acceleration in the Display / Screen settings and modify the video memory to 128 MB.



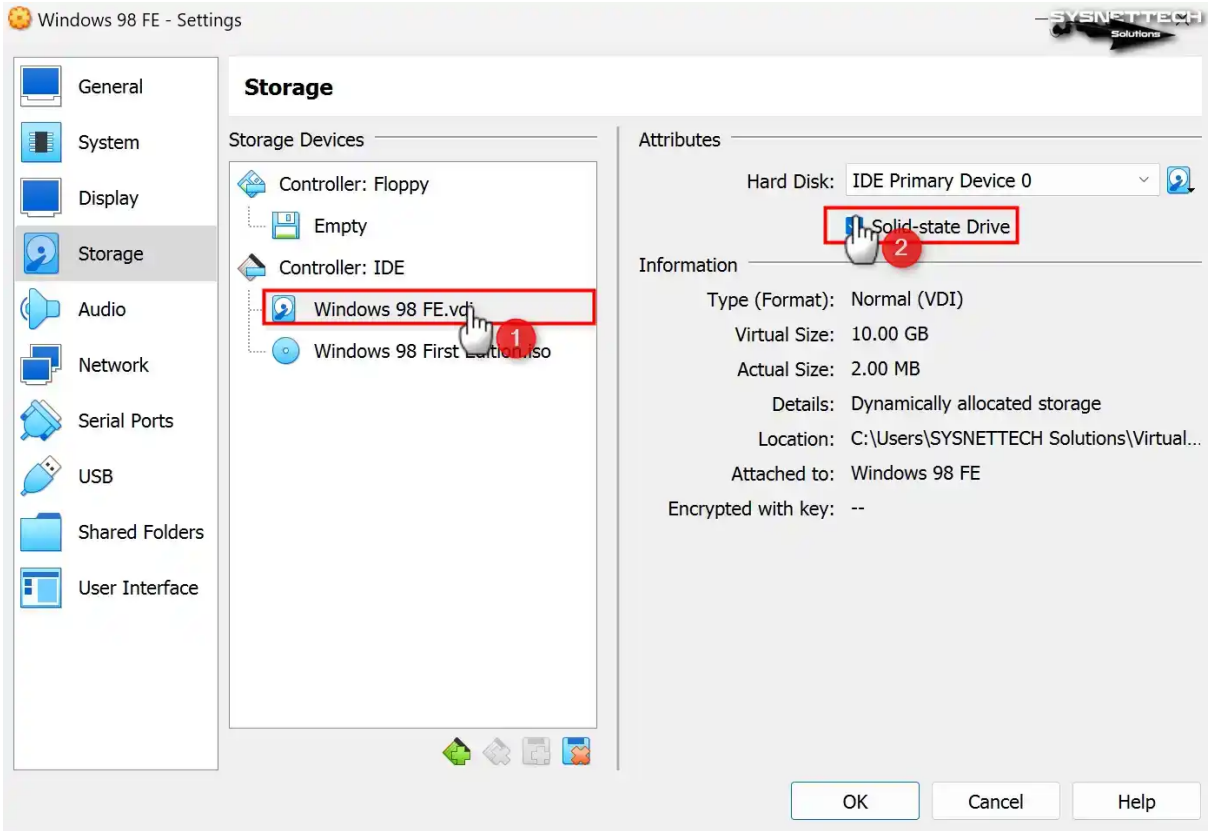
Step 12

After selecting the IDE controller, check if the Host I/O Cache feature on the right is enabled.



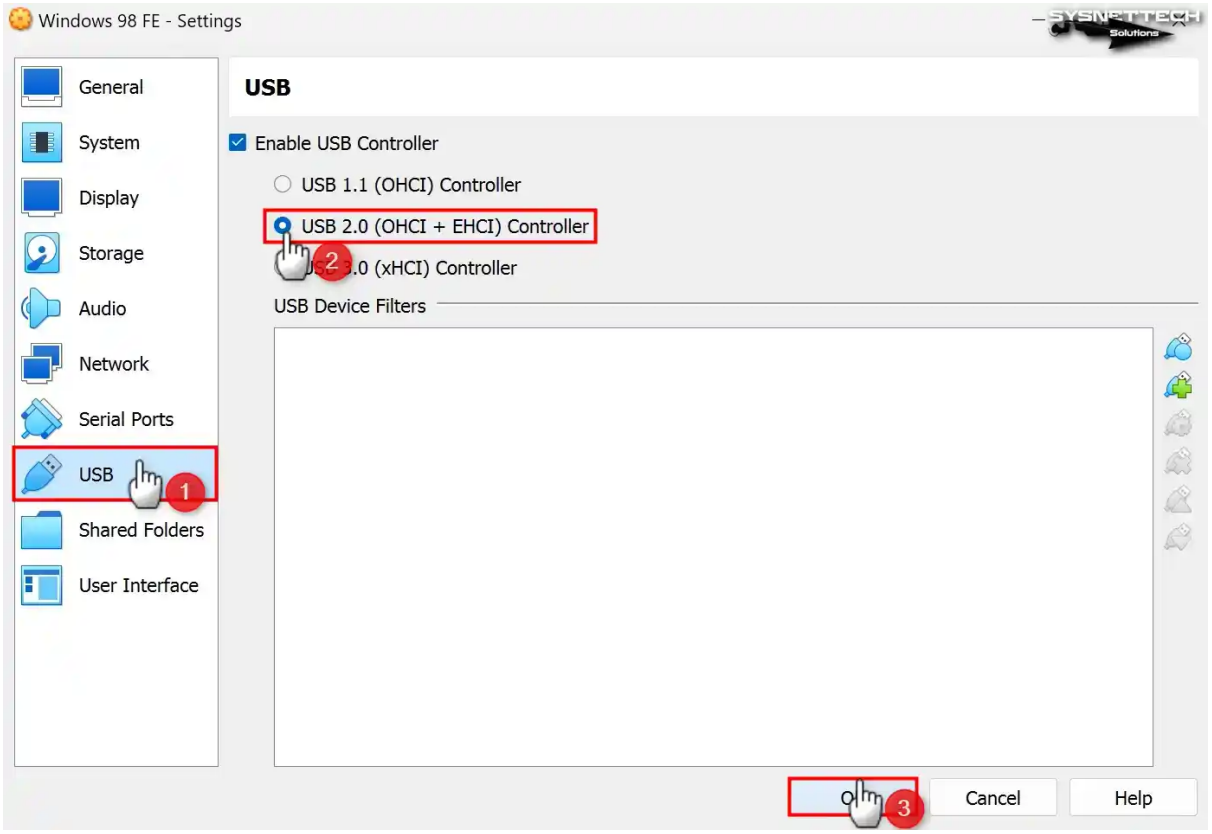
Step 13

Select the Solid-State Drive option to configure the working principle of the Windows98.vdi virtual disk file as SSD.



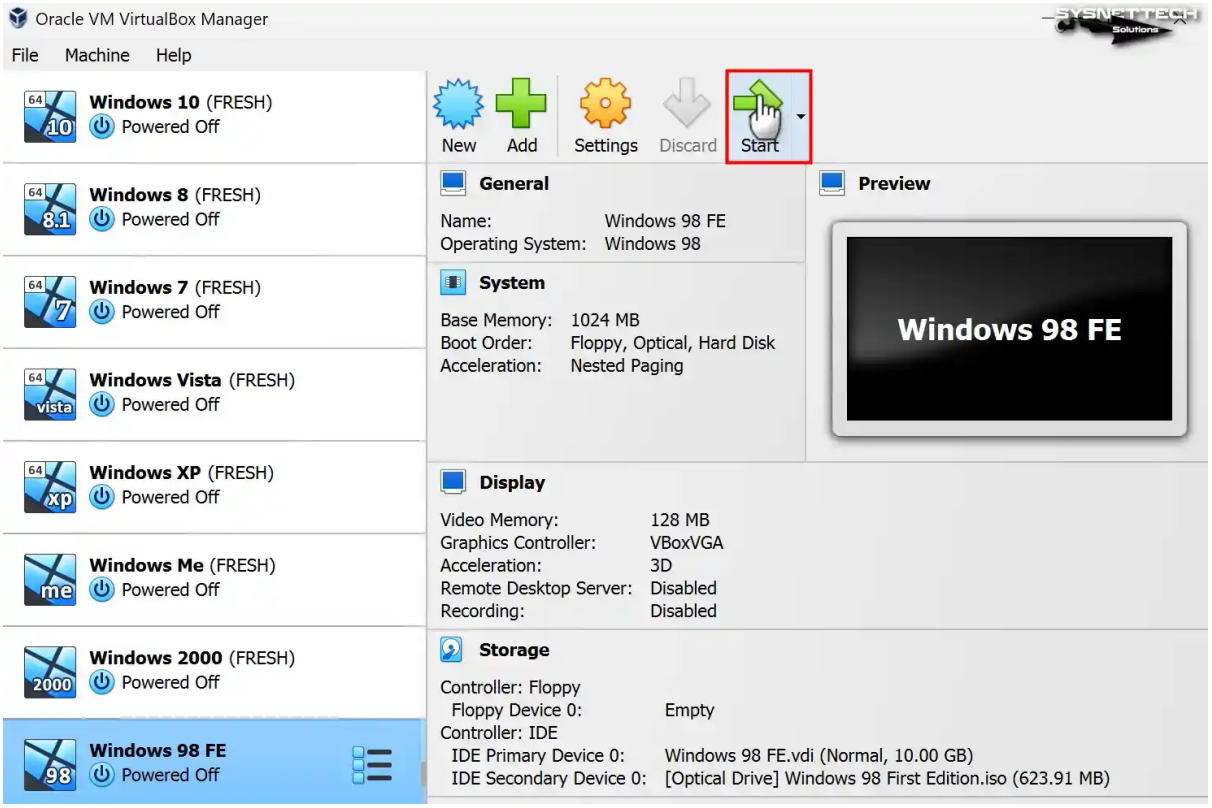
Step 14

To transfer files using your USB devices on your Windows 98 virtual guest machine, tick the 2.0 (OHCI + EHCI) Controller and turn off your VM's settings.



Step 15

After making all the necessary preparations, run your virtual computer to install Windows 98 with VirtualBox. After running the VM, when the Select Start-Up Disk window opens, select the ISO image you added to the guest machine and click Start again.

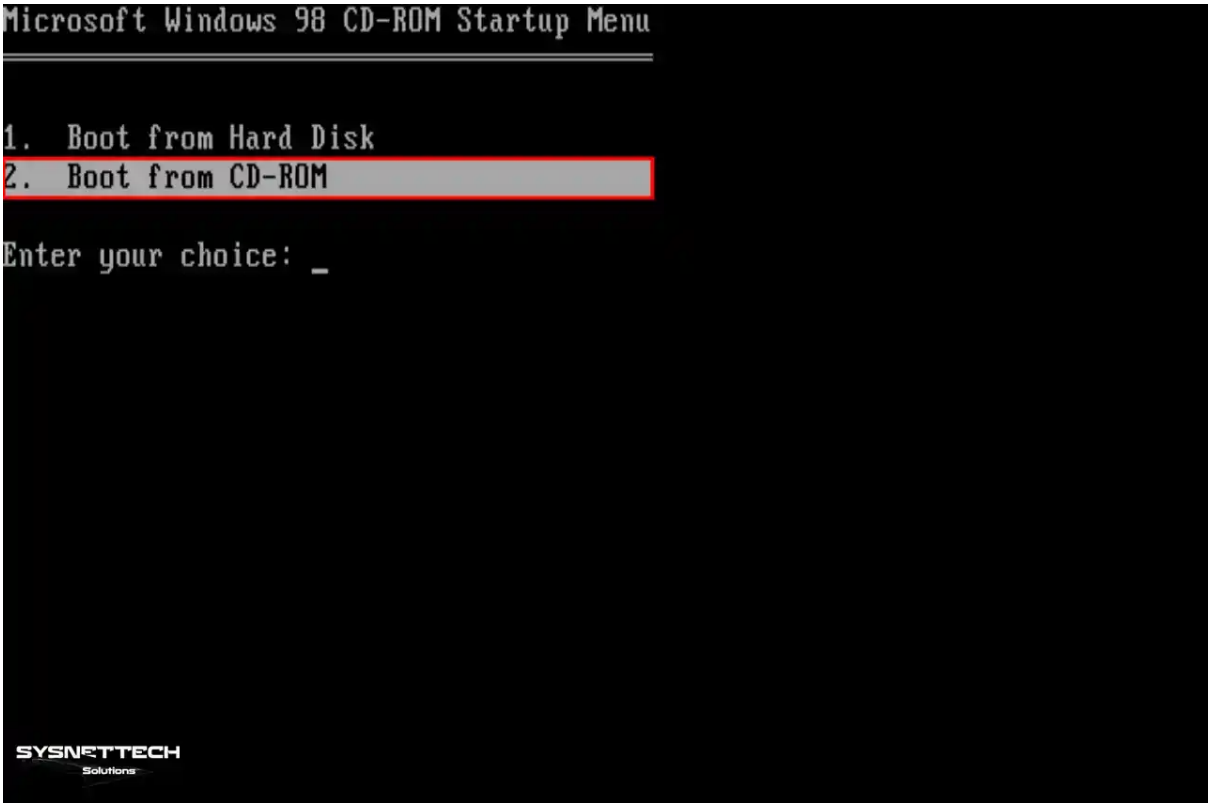


How to Install Windows 98

After booting the virtual computer with the startup disk, you can install Windows just as you would on a physical computer.

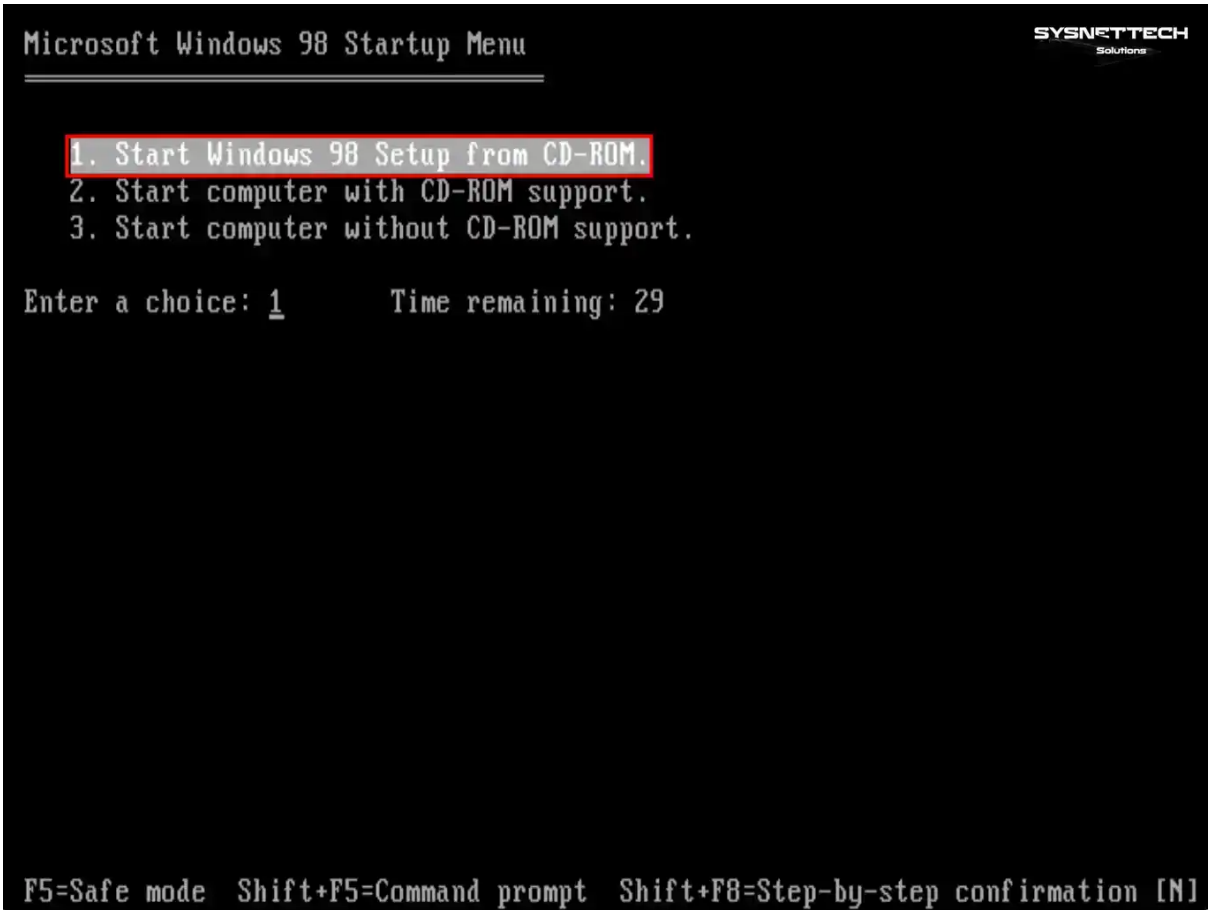
Step 1

When the Microsoft Windows 98 start menu is opened, press Enter on the Boot from CD-ROM option to install the OS with the ISO image.



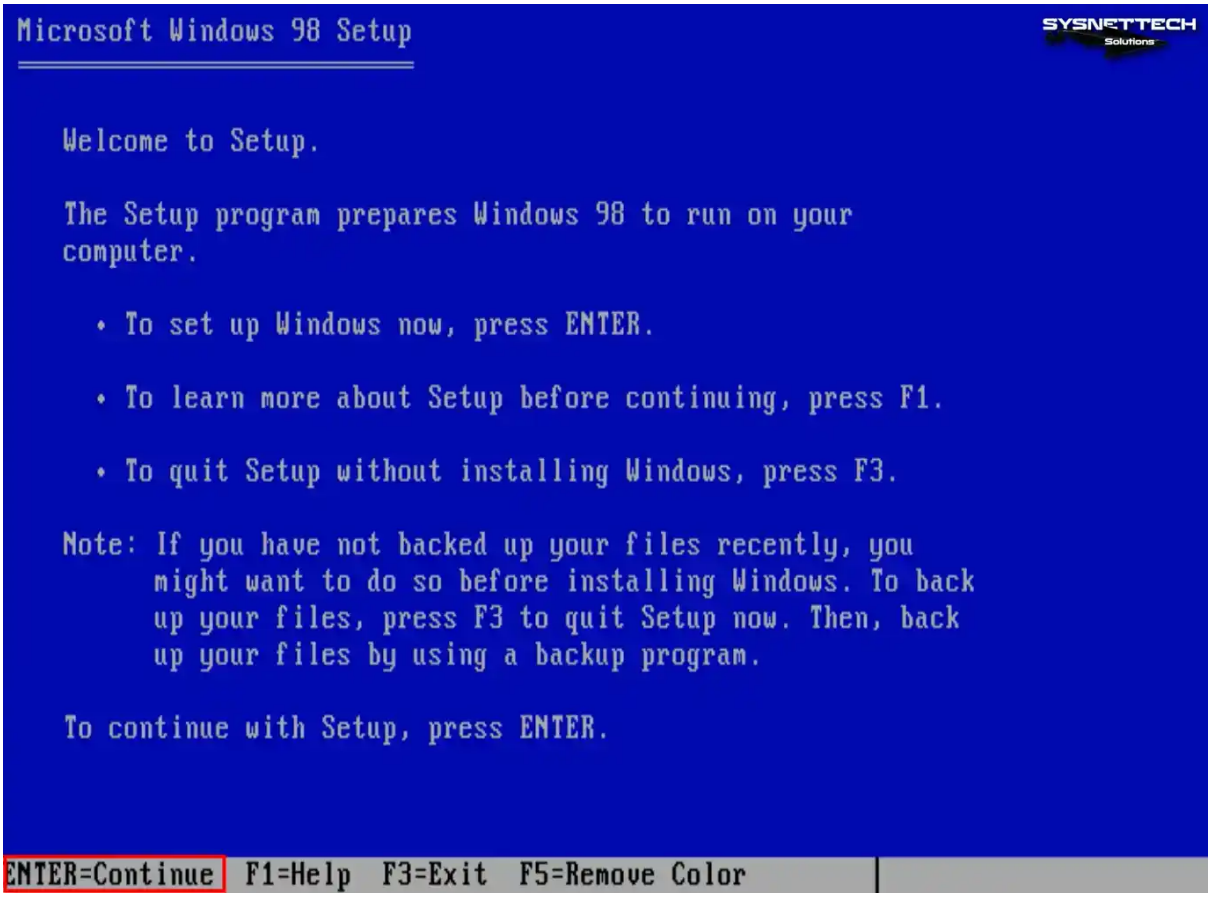
Step 2

Press Enter again on the Start Windows 98 Setup from CD-ROM option and continue.


Microsoft Windows 98 Startup Menu
SYSNETTECH
Solutions
1. Start Windows 98 Setup from CD-ROM.
2. Start computer with CD-ROM support.
3. Start computer without CD-ROM support.
Enter a choice: 1 Time remaining: 29
F5=Safe mode Shift+F5=Command prompt Shift+F8=Step-by-step confirmation [N]

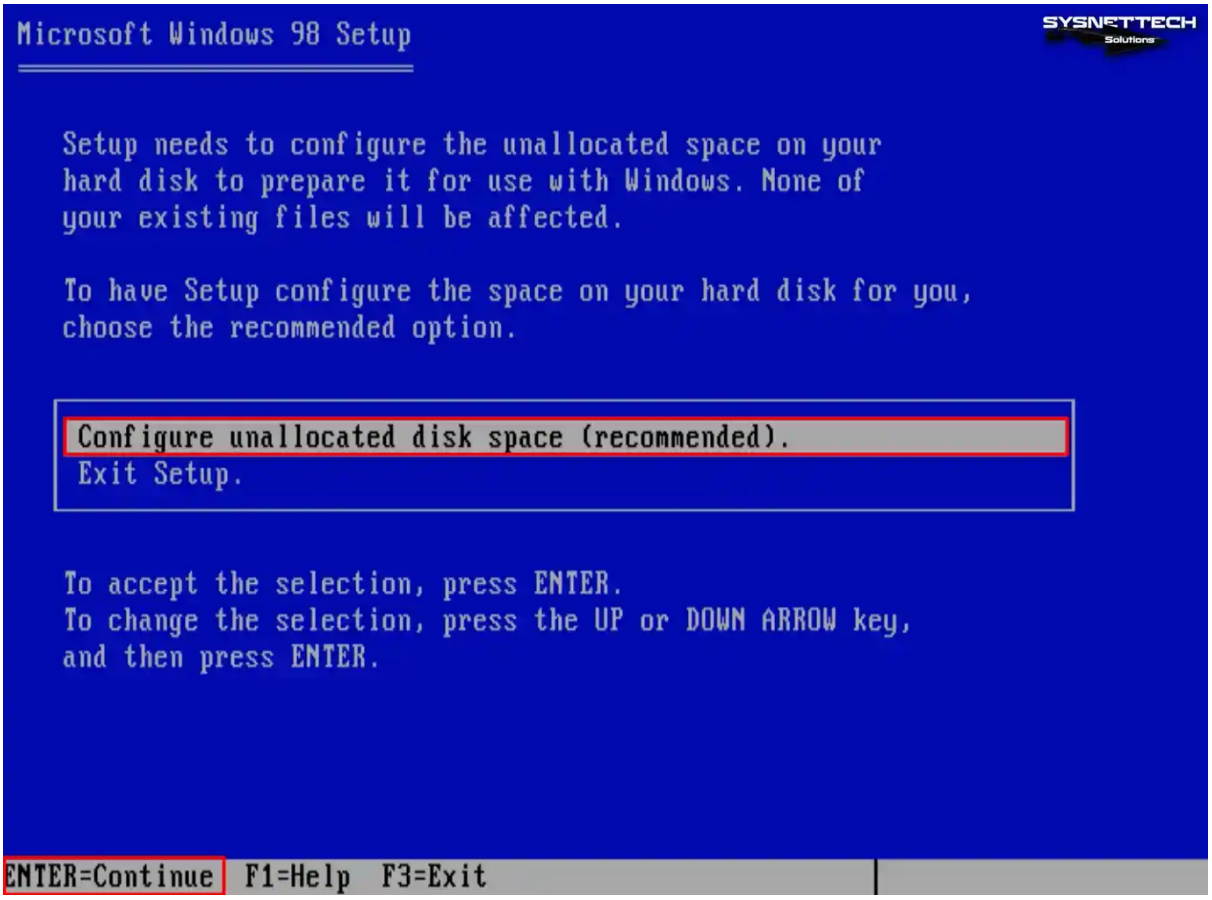
Step 3

Press the Enter key on the Microsoft Windows 98 Setup screen to initiate the setup. If you need additional details about the installation, press F1 or F3 to leave the wizard.


Microsoft Windows 98 Setup
SYSNETTECH
Solutions
Welcome to Setup.
The Setup program prepares Windows 98 to run on your computer.
• To set up Windows now, press ENTER.
• To learn more about Setup before continuing, press F1.
• To quit Setup without installing Windows, press F3.
Note: If you have not backed up your files recently, you might want to do so before installing Windows. To back up your files, press F3 to quit Setup now. Then, back up your files by using a backup program.
To continue with Setup, press ENTER.
ENTER=Continue F1=Help F3=Exit F5=Remove Color

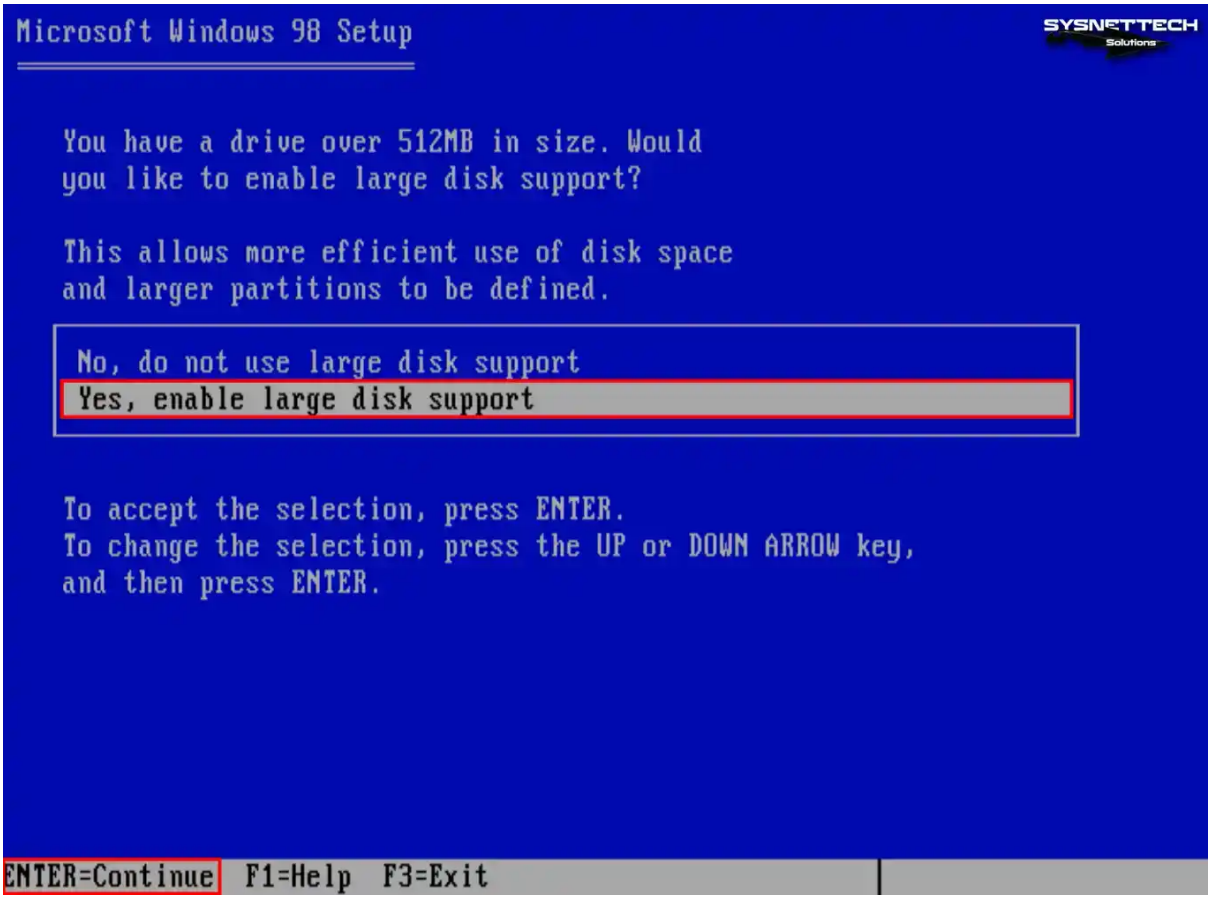
Step 4

To edit the virtual disk of the virtual machine, you must configure the unallocated space. Press Enter on the Configure unallocated disk space option and continue.


Microsoft Windows 98 Setup
SYSNETTECH
Solutions
Setup needs to configure the unallocated space on your
hard disk to prepare it for use with Windows. None of
your existing files will be affected.
To have Setup configure the space on your hard disk for you,
choose the recommended option.
Configure unallocated disk space (recommended).
Exit Setup.
To accept the selection, press ENTER.
To change the selection, press the UP or DOWN ARROW key,
and then press ENTER.
ENTER=Continue F1=Help F3=Exit

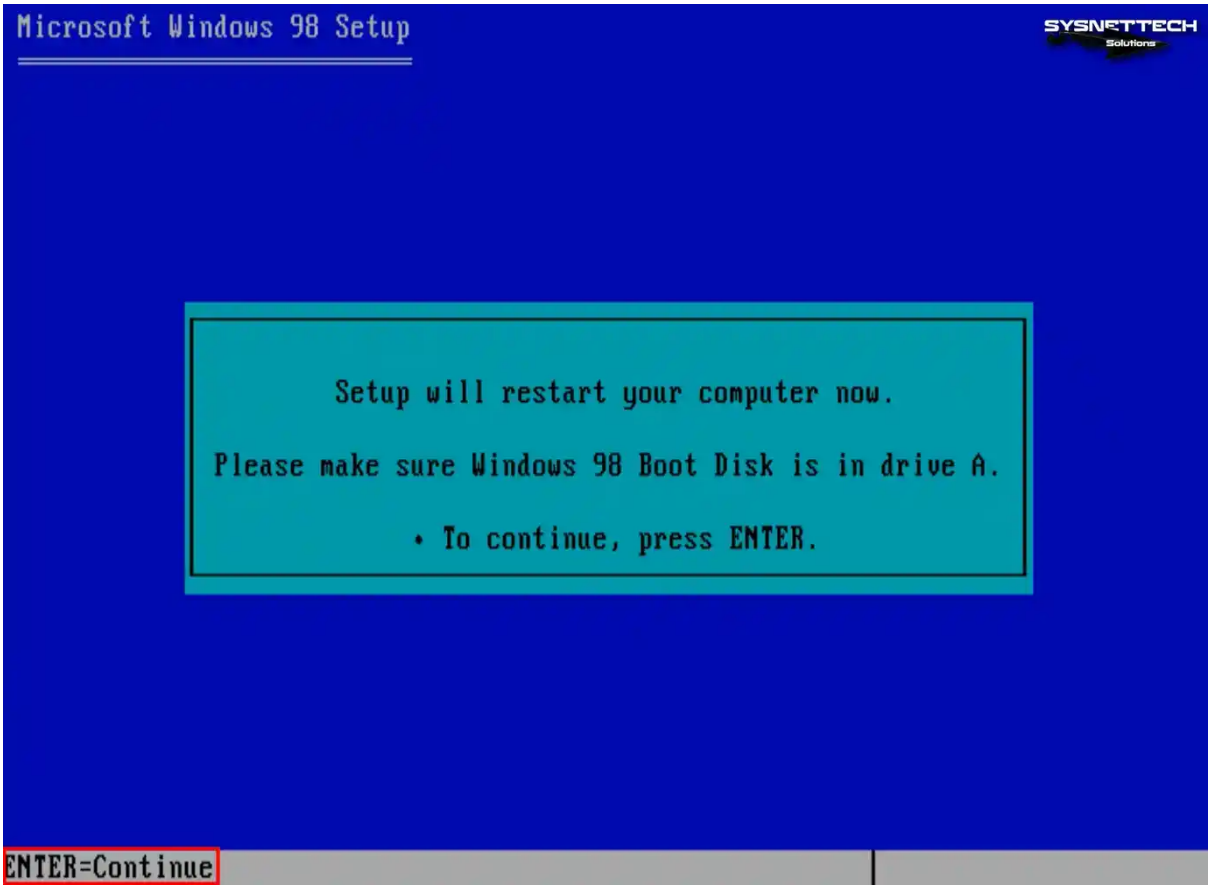
Step 5

Enable large disk support if the virtual PC's capacity exceeds 512 MB.


Microsoft Windows 98 Setup
SYSNETTECH
Solutions
You have a drive over 512MB in size. Would
you like to enable large disk support?
This allows more efficient use of disk space
and larger partitions to be defined.
No, do not use large disk support
Yes, enable large disk support
To accept the selection, press ENTER.
To change the selection, press the UP or DOWN ARROW key,
and then press ENTER.
ENTER=Continue F1=Help F3=Exit

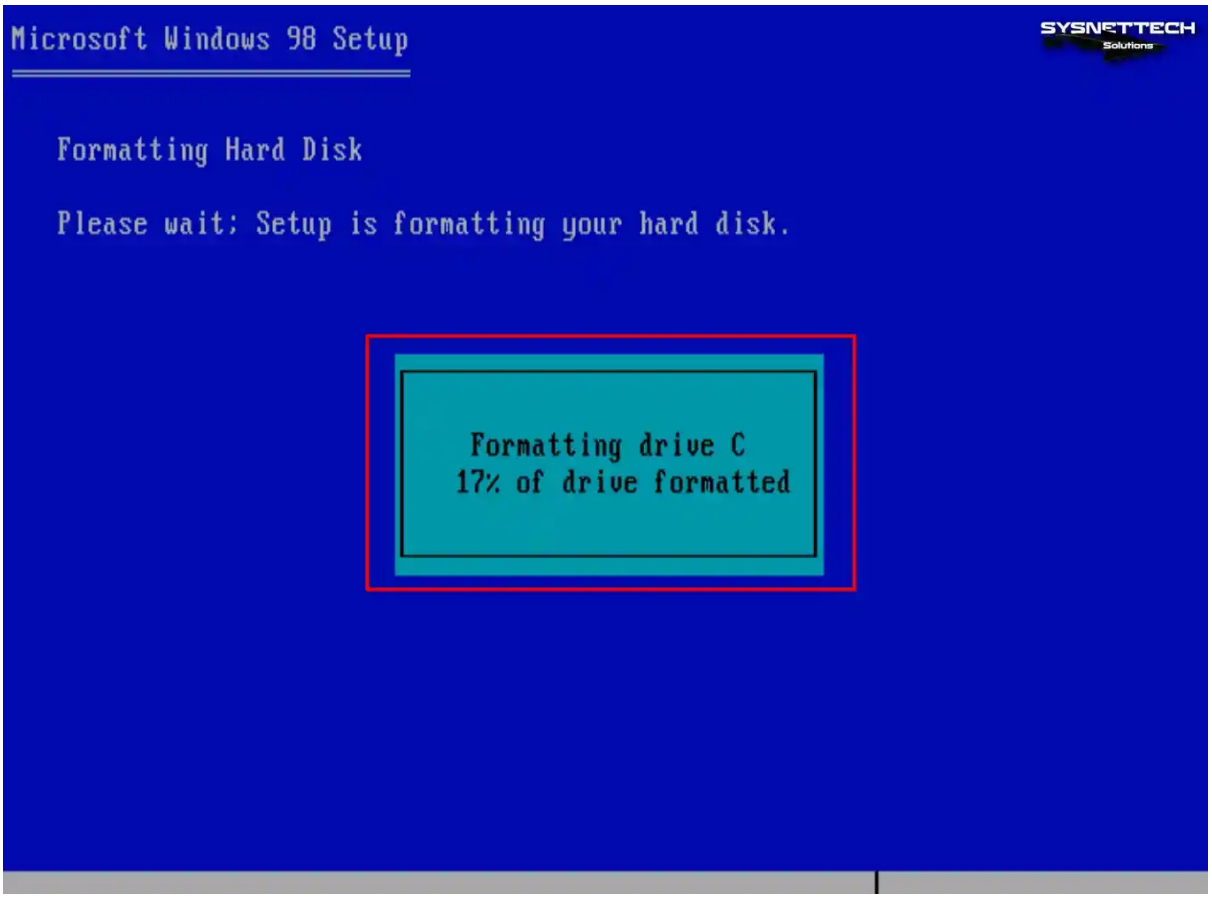
Step 6

After enabling extensive disk support, you must restart your virtual computer. Since you will start the installation from scratch, repeat the above Steps.


Microsoft Windows 98 Setup
SYSNETTECH
Solutions
Setup will restart your computer now.
Please make sure Windows 98 Boot Disk is in drive A.
• To continue, press ENTER.
ENTER=Continue

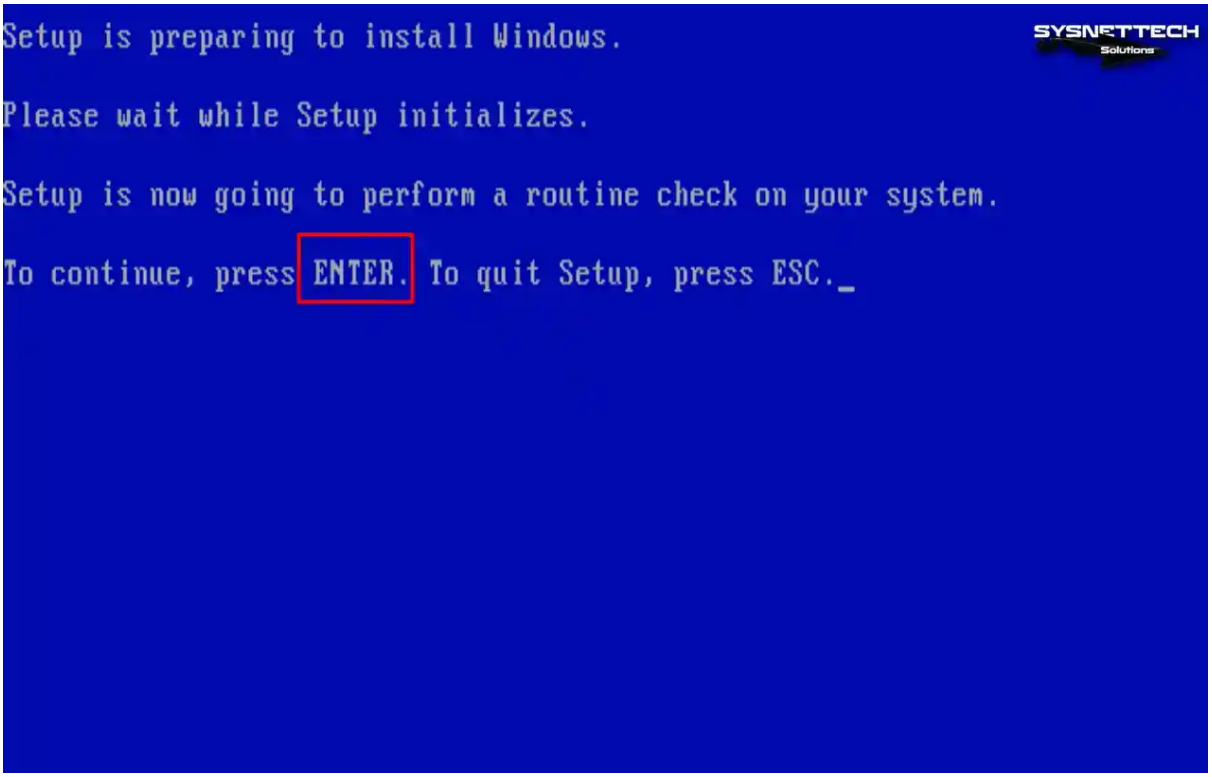
Step 7

The C drive will be automatically formatted after the virtual machine restarts.



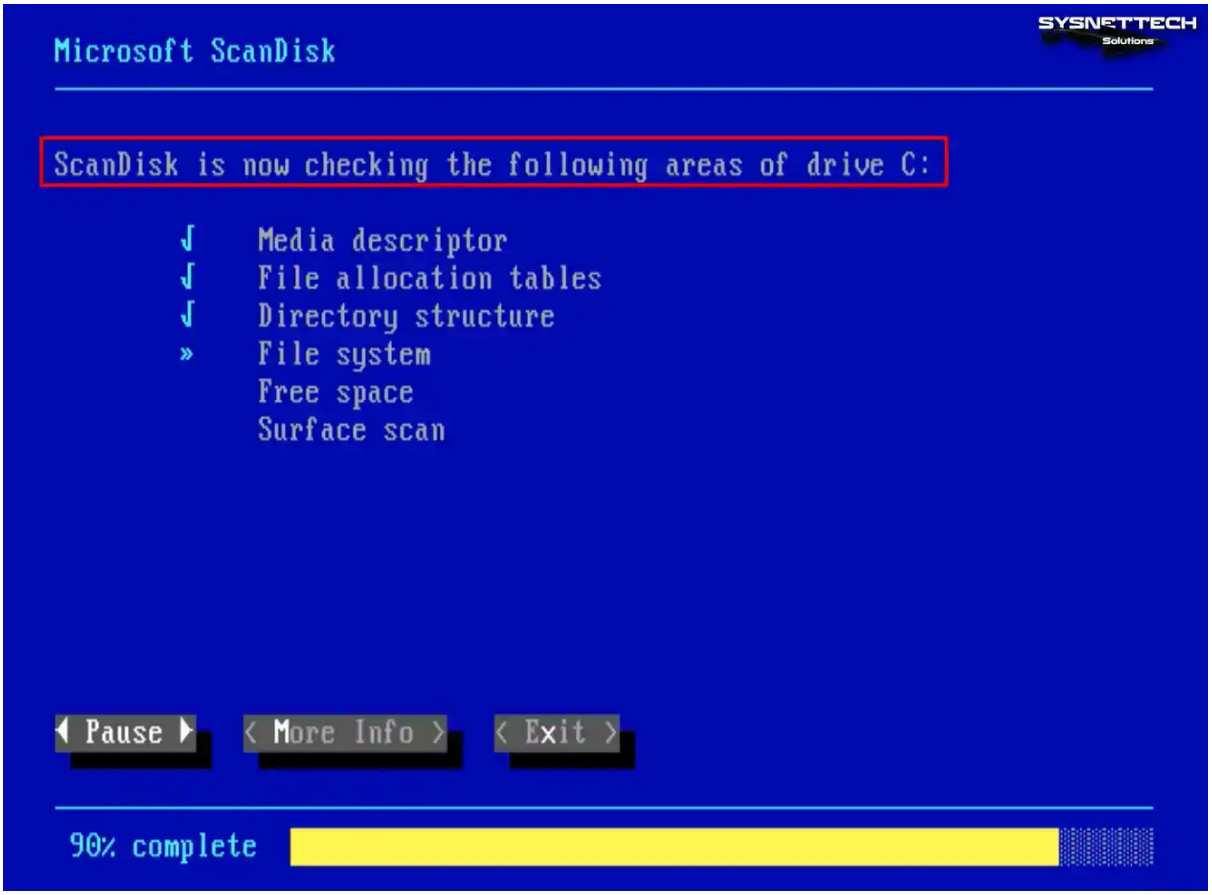
Step 8

After the virtual disk is formatted, press Enter to continue the installation.


Setup is preparing to install Windows.
SYSNETTECH
Solutions
Please wait while Setup initializes.
Setup is now going to perform a routine check on your system.
To continue, press ENTER. To quit Setup, press ESC._

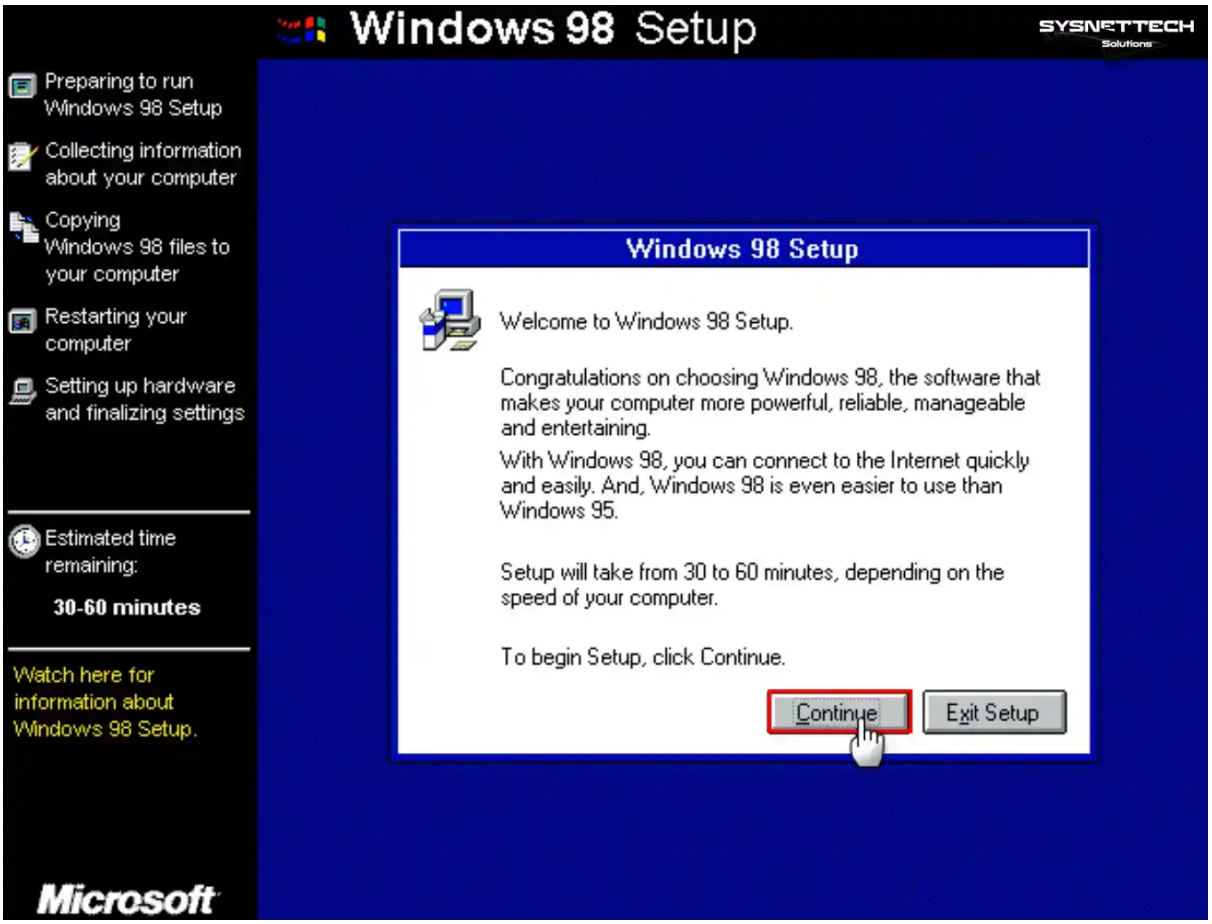
Step 9

The file structure on the C drive will be checked automatically when the Microsoft ScanDisk tool is opened.



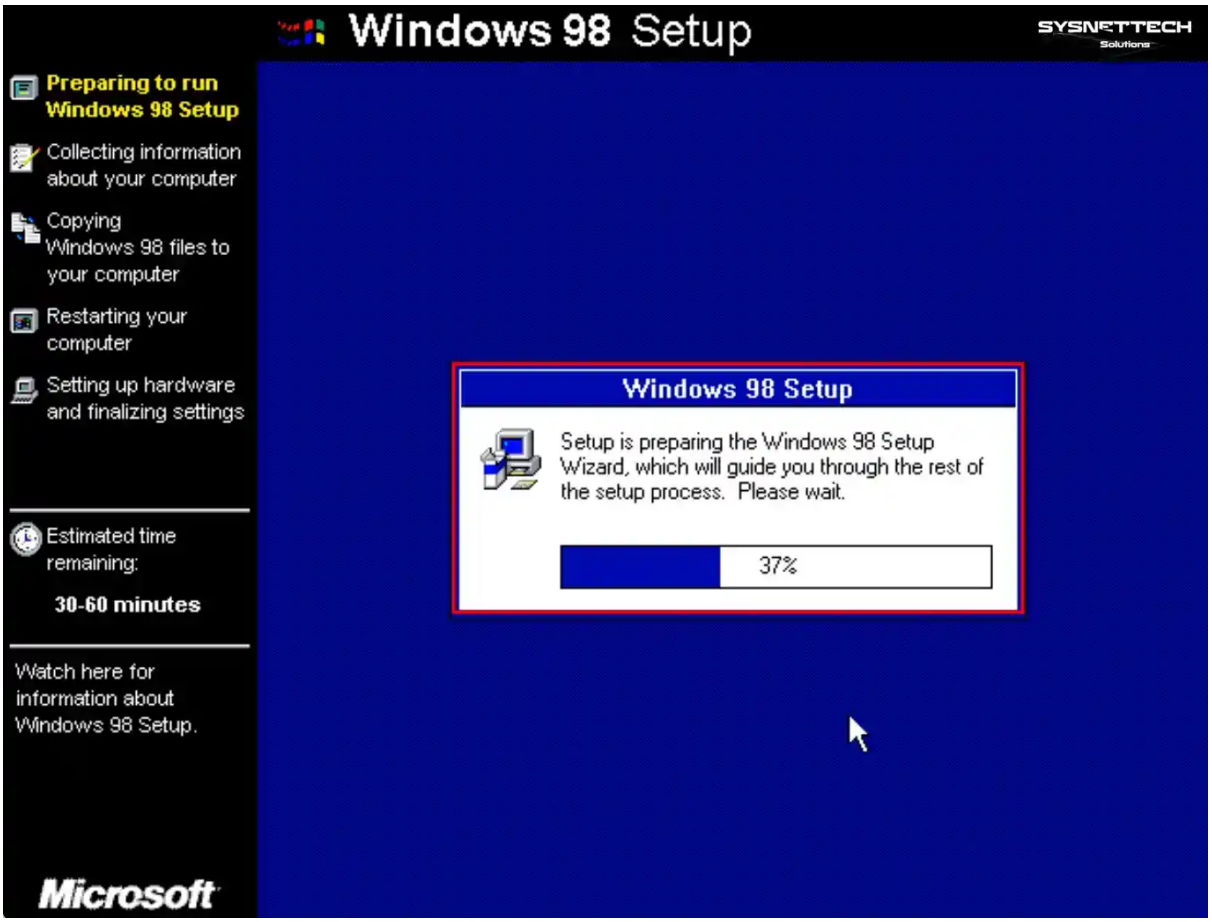
Step 10

After checking the disk structure, click the Continue button when the Windows wizard opens.


Windows 98 Setup
SYSNETTECH Solutions
Preparing to run Windows 98 Setup
Collecting information about your computer
Copying Windows 98 files to your computer
Restarting your computer
Setting up hardware and finalizing settings
Estimated time remaining:
30-60 minutes
Watch here for information about Windows 98 Setup.
Microsoft
Windows 98 Setup
Welcome to Windows 98 Setup.
Congratulations on choosing Windows 98, the software that makes your computer more powerful, reliable, manageable and entertaining.
With Windows 98, you can connect to the Internet quickly and easily. And, Windows 98 is even easier to use than Windows 95.
Setup will take from 30 to 60 minutes, depending on the speed of your computer.
To begin Setup, click Continue.
Continue
Exit Setup

Step 11

Wait while the Windows 98 setup wizard is being prepared.


Windows 98 Setup
SYSNETTECH Solutions
Preparing to run Windows 98 Setup
Collecting information about your computer
Copying Windows 98 files to your computer
Restarting your computer
Setting up hardware and finalizing settings
Estimated time remaining:
30-60 minutes
Watch here for information about Windows 98 Setup.
Microsoft
Windows 98 Setup
Setup is preparing the Windows 98 Setup Wizard, which will guide you through the rest of the setup process. Please wait.
37%

Step 12

You can change the directory where you want to install Windows 98 with the Other Directory option. Click Next directly to install Windows to the default C:\WINDOWS directory.

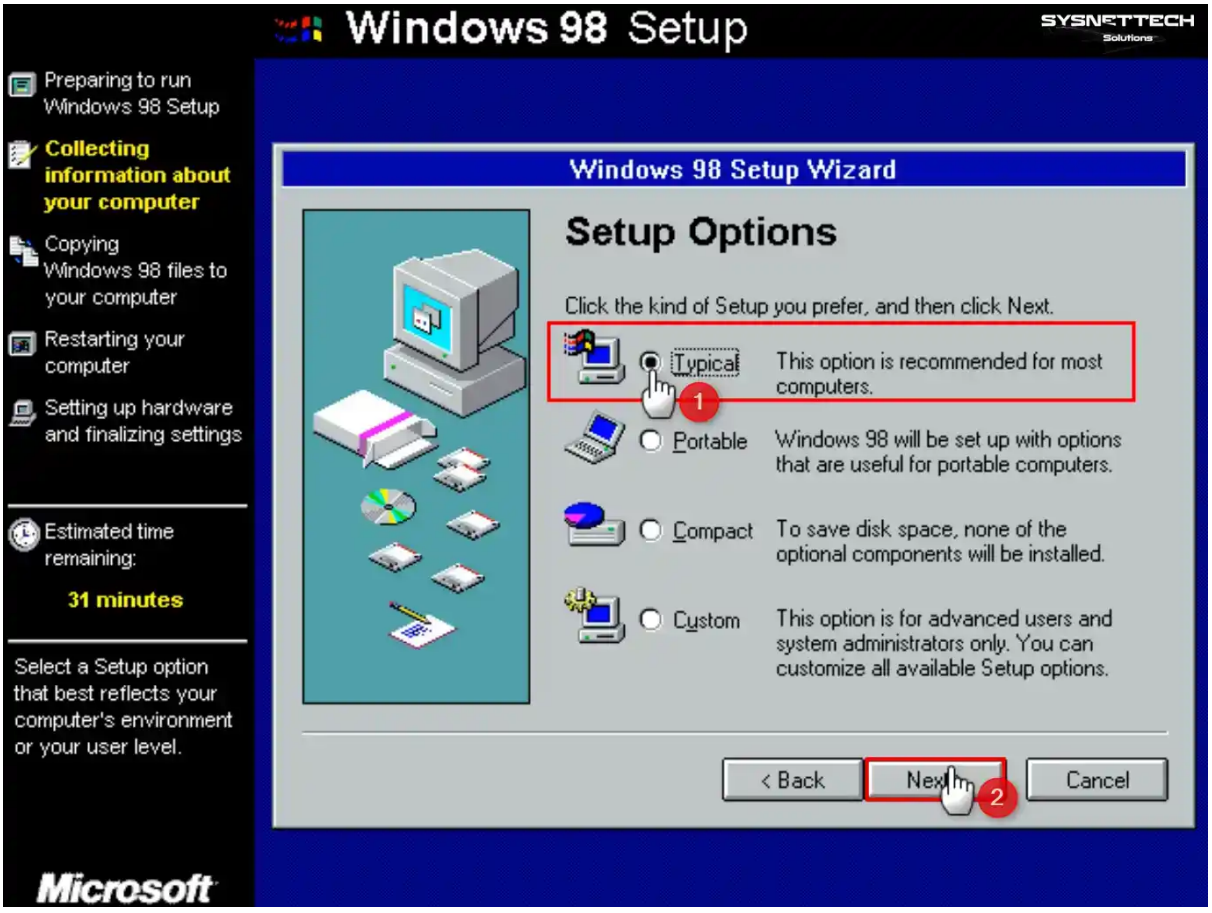
Step 13

Wait while the setup wizard checks for installed components and disk space.

Windows 98 Setup
SYSNETTECH
Preparing to run Windows 98 Setup
Collecting information about your computer
Copying Windows 98 files to your computer
Restarting your computer
Setting up hardware and finalizing settings
Estimated time remaining:
33 minutes
Setup is inspecting the integrity of your operating environment.
Microsoft
Windows 98 Setup Wizard
Preparing Directory
Please wait while Setup prepares your Windows directory and verifies that your computer has enough disk space to install Windows 98.
Checking for installed components...
100%
Checking for available disk space...
61%
< Back
Next >
Cancel

Step 14

In the Windows installation options window, select Typical, enabled by default, and click Next.


Windows 98 Setup
SYSNETTECH
Preparing to run Windows 98 Setup
Collecting information about your computer
Copying Windows 98 files to your computer
Restarting your computer
Setting up hardware and finalizing settings
Estimated time remaining:
31 minutes
Select a Setup option that best reflects your computer's environment or your user level.
Microsoft
Windows 98 Setup Wizard
Setup Options
Click the kind of Setup you prefer, and then click Next.
Typical
This option is recommended for most computers.
1
Portable
Windows 98 will be set up with options that are useful for portable computers.
Compact
To save disk space, none of the optional components will be installed.
Custom
This option is for advanced users and system administrators only. You can customize all available Setup options.
< Back
Next >
2
Cancel

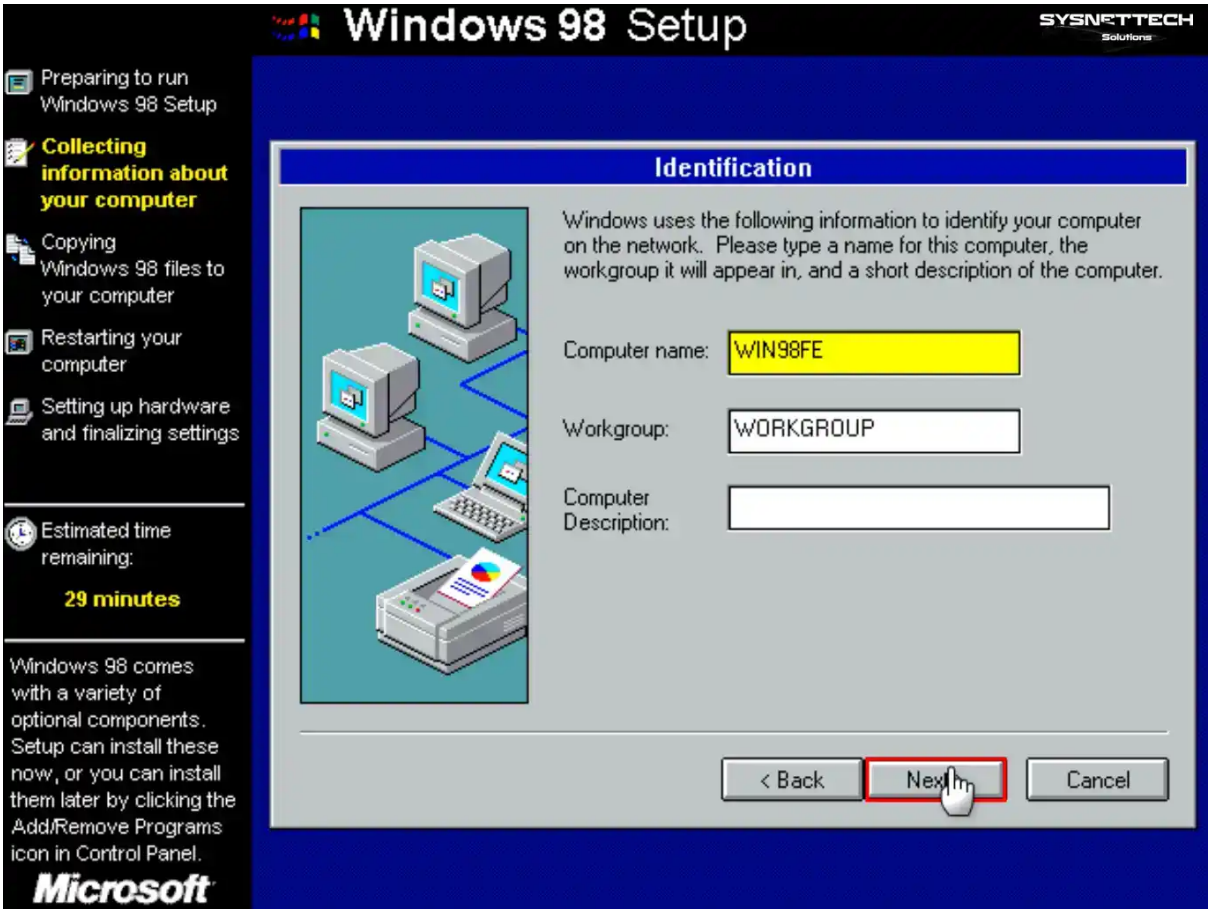
Step 15

Check the Install most common Windows components option and click Next.

Windows 98 Setup
SYSNETTECH
Solutions
Preparing to run Windows 98 Setup
Collecting information about your computer
Copying Windows 98 files to your computer
Restarting your computer
Setting up hardware and finalizing settings
Estimated time remaining:
29 minutes
Windows 98 comes with a variety of optional components. Setup can install these now, or you can install them later by clicking the Add/Remove Programs icon in Control Panel.
Microsoft
Windows 98 Setup Wizard
Windows Components
Windows 98 Setup has selected appropriate components to install, based on the kind of Setup you selected.
Some components require extra disk space and will not be installed unless you select them from the list.
I want Setup to:
Install the most common components (Recommended)
Show me the list of components so I can choose.
1
2
< Back
Next >
Cancel

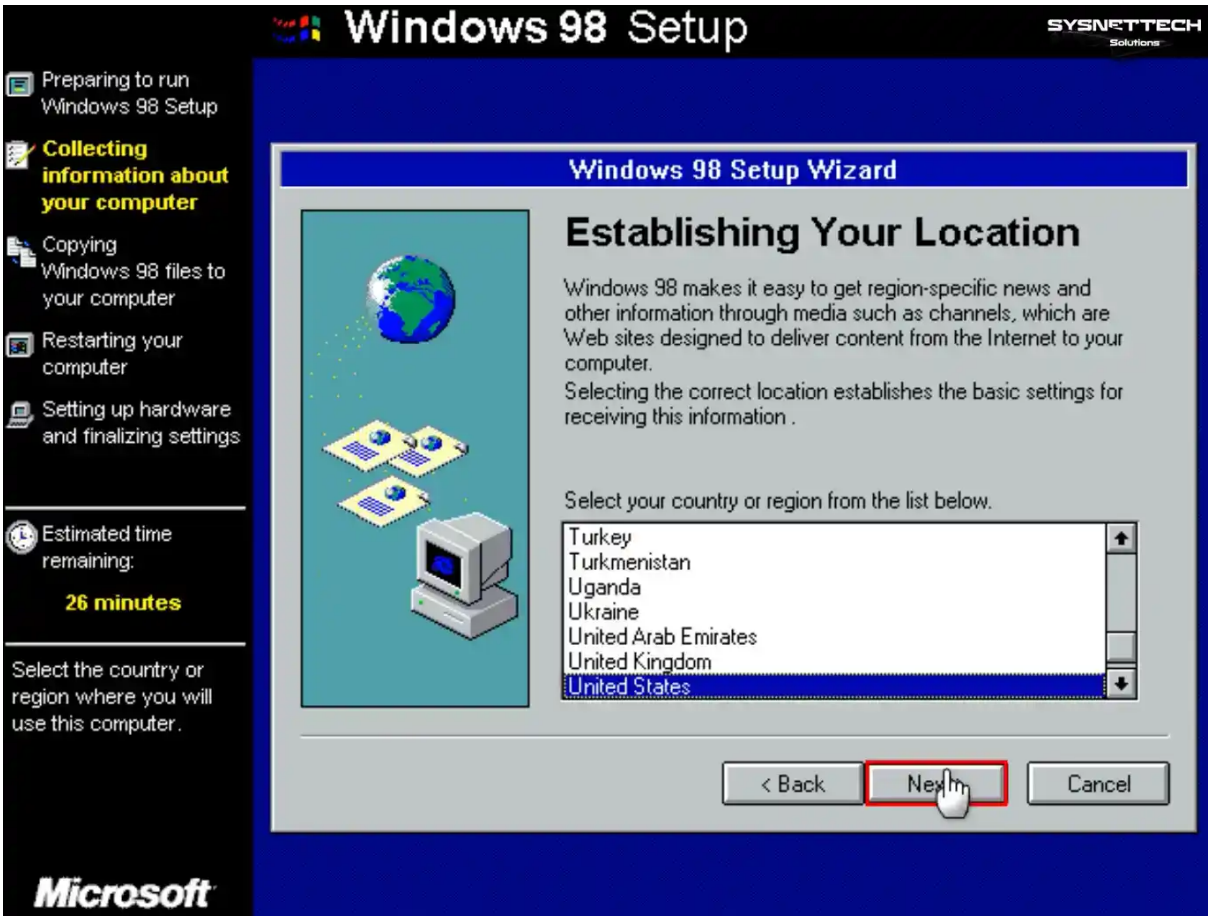
Step 16

Type a different computer name and description from other computers in your network.


Windows 98 Setup
SYSNETTECH
Solutions
Preparing to run Windows 98 Setup
Collecting information about your computer
Copying Windows 98 files to your computer
Restarting your computer
Setting up hardware and finalizing settings
Estimated time remaining:
29 minutes
Windows 98 comes with a variety of optional components. Setup can install these now, or you can install them later by clicking the Add/Remove Programs icon in Control Panel.
Microsoft
Identification
Windows uses the following information to identify your computer on the network. Please type a name for this computer, the workgroup it will appear in, and a short description of the computer.
Computer name:
WIN98FE
Workgroup:
WORKGROUP
Computer Description:
< Back
Next >
Cancel

Step 17

To list news or related content from the Internet specific to your region, select the country you live in and continue.


Windows 98 Setup
SYSNETTECH
Preparing to run Windows 98 Setup
Collecting information about your computer
Copying Windows 98 files to your computer
Restarting your computer
Setting up hardware and finalizing settings
Estimated time remaining:
26 minutes
Select the country or region where you will use this computer.
Microsoft
Windows 98 Setup Wizard
Establishing Your Location
Windows 98 makes it easy to get region-specific news and other information through media such as channels, which are Web sites designed to deliver content from the Internet to your computer.
Selecting the correct location establishes the basic settings for receiving this information .
Select your country or region from the list below.
Turkey
Turkmenistan
Uganda
Ukraine
United Arab Emirates
United Kingdom
United States
< Back
Next >
Cancel

Step 18

Click Next to continue copying the Windows 98 software platform files.

Windows 98 Setup
SYSNETTECH
Preparing to run Windows 98 Setup
Collecting information about your computer
Copying Windows 98 files to your computer
Restarting your computer
Setting up hardware and finalizing settings
Estimated time remaining:
23 minutes
The rest of Windows 98 Setup does not normally require your assistance.
Microsoft
Windows 98 Setup Wizard
Start Copying Files
The Windows 98 Setup wizard now has enough information to start copying Windows 98 files to your computer. If you want to review or change any settings, click Back.
To start copying Windows 98 files, click Next.
< Back
Next >
Cancel

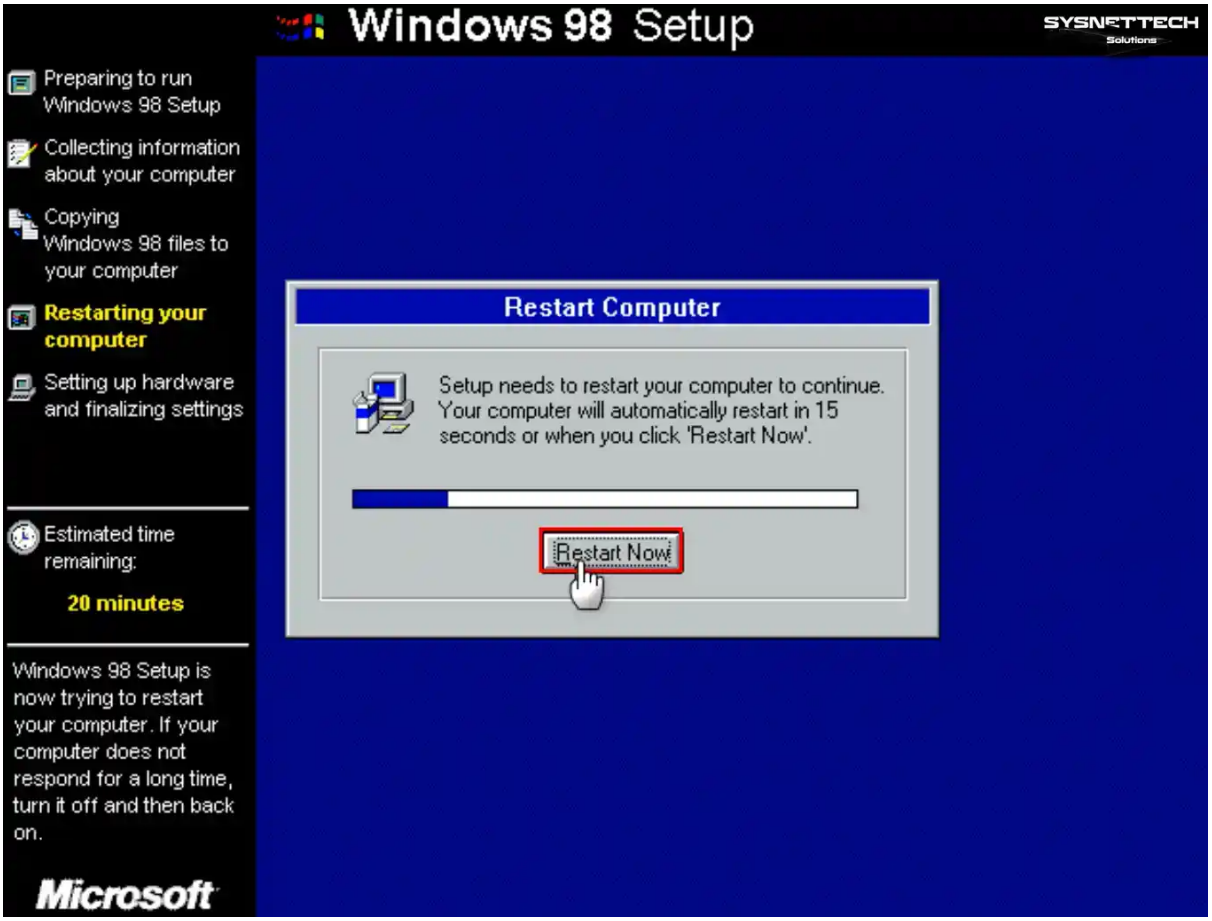
Step 19

Installing Windows in the virtual machine might require some time, contingent upon the hardware performance of your host computer. Therefore, kindly await the completion of the installation process.

Windows 98 Setup
SYSNETTECH
Solutions
Preparing to run Windows 98 Setup
Collecting information about your computer
Copying Windows 98 files to your computer
Restarting your computer
Setting up hardware and finalizing settings
Estimated time remaining:
21 minutes
File copy progress:
28%
Microsoft
Connects You to the Web
If you want to use the Internet, it's never been easier or faster.
The Internet Connection wizard helps you configure your system and sign up with an Internet service provider of your choice.
For fast Web access, link several modems or quickly set up your ISDN connection by using the new wizard.

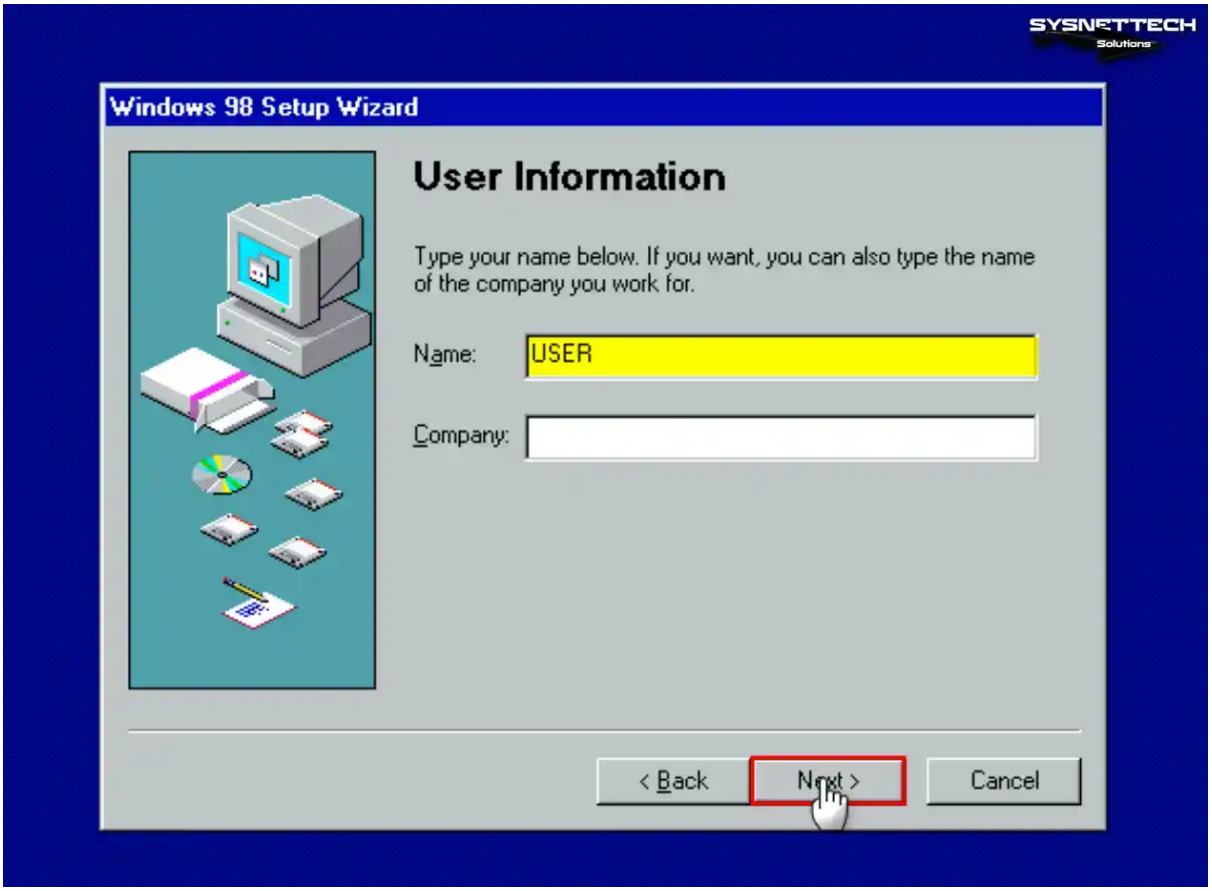
Step 20

After the necessary files are copied, restart your virtual computer.


Windows 98 Setup
SYSNETTECH
Solutions
Preparing to run Windows 98 Setup
Collecting information about your computer
Copying Windows 98 files to your computer
Restarting your computer
Setting up hardware and finalizing settings
Estimated time remaining:
20 minutes
Windows 98 Setup is now trying to restart your computer. If your computer does not respond for a long time, turn it off and then back on.
Microsoft
Restart Computer
Setup needs to restart your computer to continue. Your computer will automatically restart in 15 seconds or when you click 'Restart Now'.
Restart Now

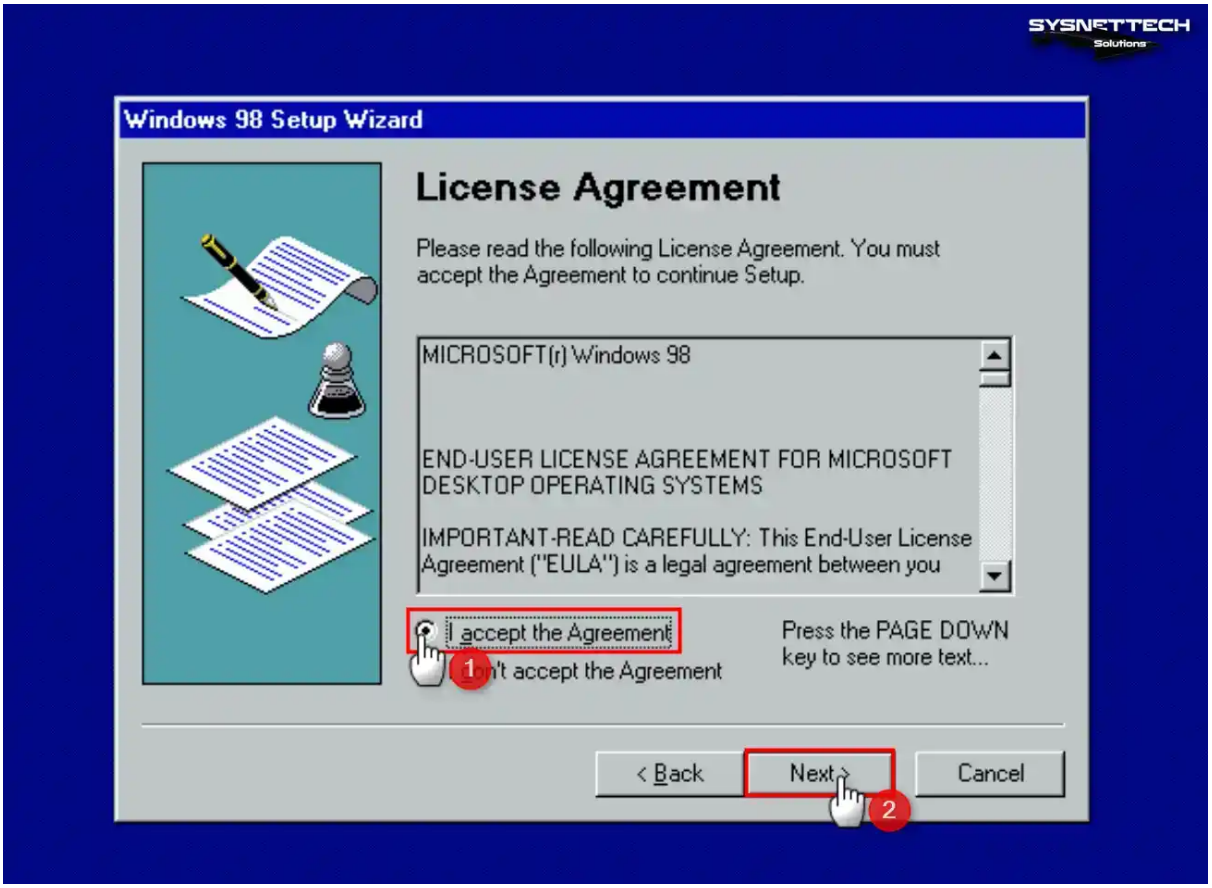
Step 21

If the ISO file is mounted on the guest machine when restarting your virtual machine, boot your system from the Hard Disk. When your virtual PC restarts, type a new username and click Next.



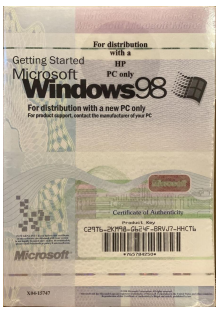
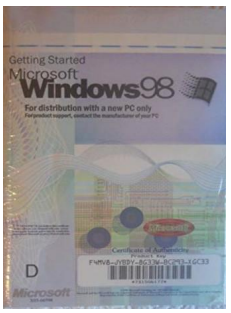
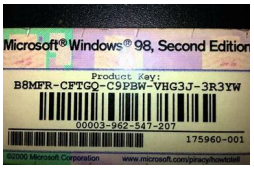
Step 22

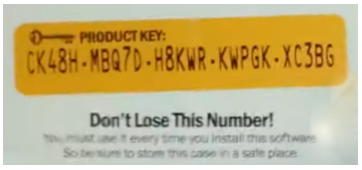
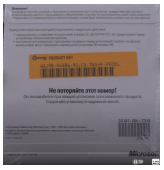
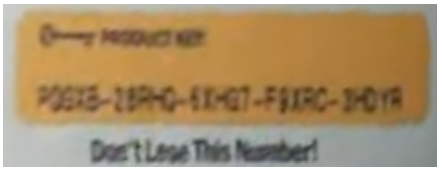
Accept the Microsoft Windows 98 license agreement and click Next.

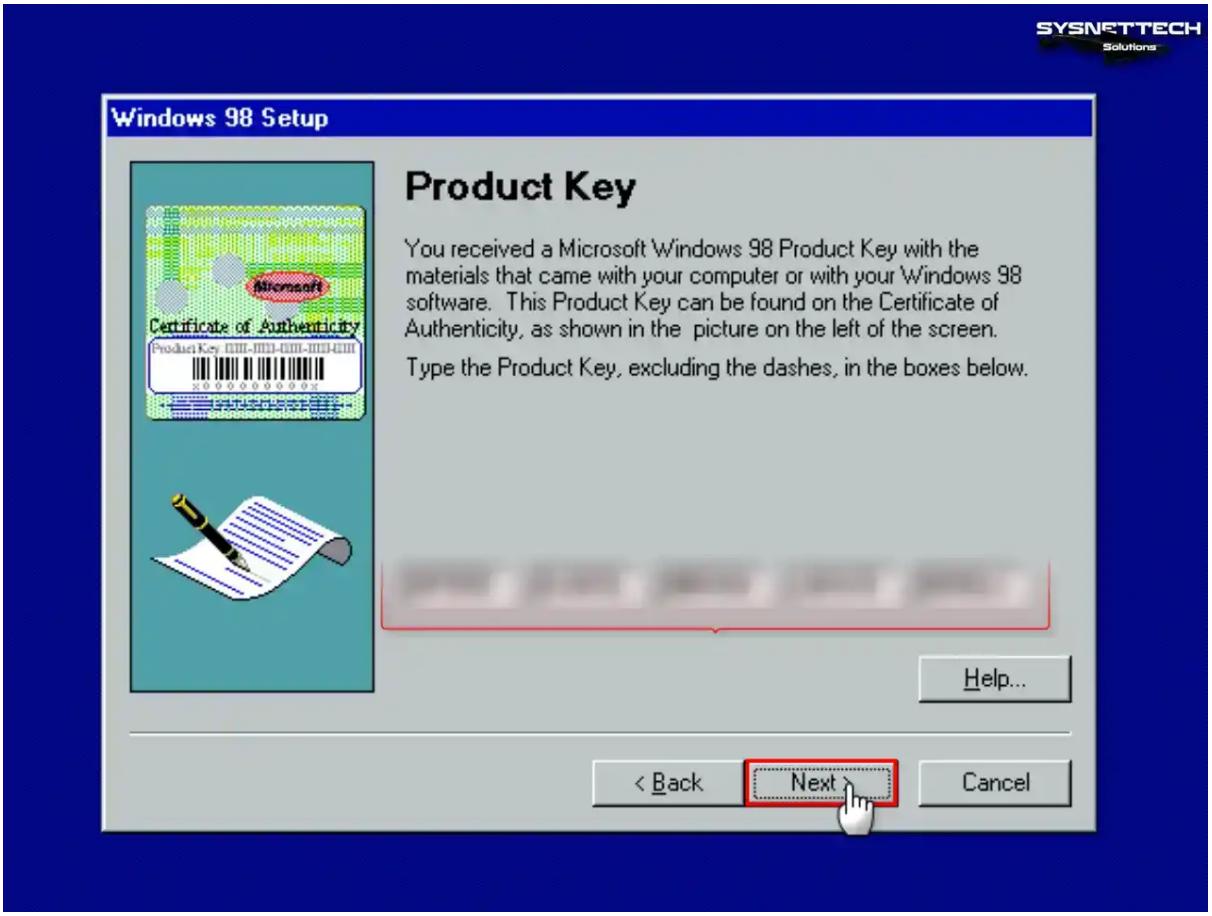

SYSNETTECH
Solutions
Windows 98 Setup Wizard
License Agreement
Please read the following License Agreement. You must accept the Agreement to continue Setup.
MICROSOFT(r) Windows 98
END-USER LICENSE AGREEMENT FOR MICROSOFT DESKTOP OPERATING SYSTEMS
IMPORTANT-READ CAREFULLY: This End-User License Agreement ("EULA") is a legal agreement between you
I accept the Agreement
I don't accept the Agreement
Press the PAGE DOWN key to see more text...
< Back
Next >
Cancel
1
2

Step 23

Type the Windows 98 SE product key and continue.

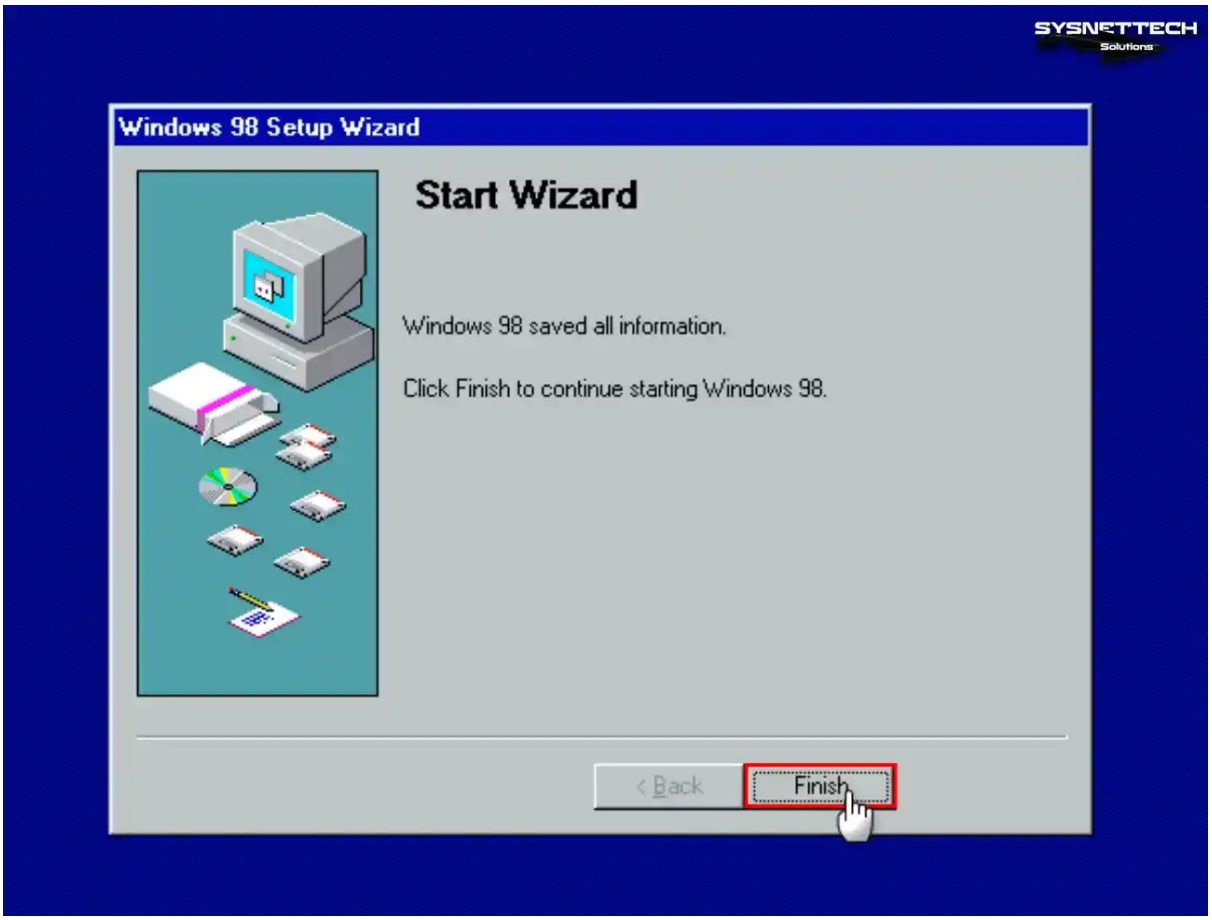
OEM:		
		
DBVQ2-3XWQK-Y4TJV-2HV7V-HHWY3	C29T6-2KM98-G624F-BRVJ7-HHCT6	F4MV8-JYBDY-8G33W-BC293-XGC33
		
B8MFR-CFTGQ-C9PBW-VHG3J-3R3YW	D4H64-G4MFJ-JTMM6-844FD-M3J43	PXXYQ-MDJPD-6VC4J-Y8CBG-KB7XJ
Retail:		

		
Windows 98 SE Retail	Windows 98 SE Retail	Windows 98 SE Upgrade Retail
CK48H-MBQ7D-H8KWR-KWPGK-XC3BG	WQJ9B-94QBW-9DJCQ-3QGH9-R928G	PQGXB-28RHQ-6XHG7-F9XRC-3HDYR


SYSNETTECH
Solutions
Windows 98 Setup
Product Key
You received a Microsoft Windows 98 Product Key with the materials that came with your computer or with your Windows 98 software. This Product Key can be found on the Certificate of Authenticity, as shown in the picture on the left of the screen.
Type the Product Key, excluding the dashes, in the boxes below.
Certificate of Authenticity
Help...
< Back
Next >
Cancel

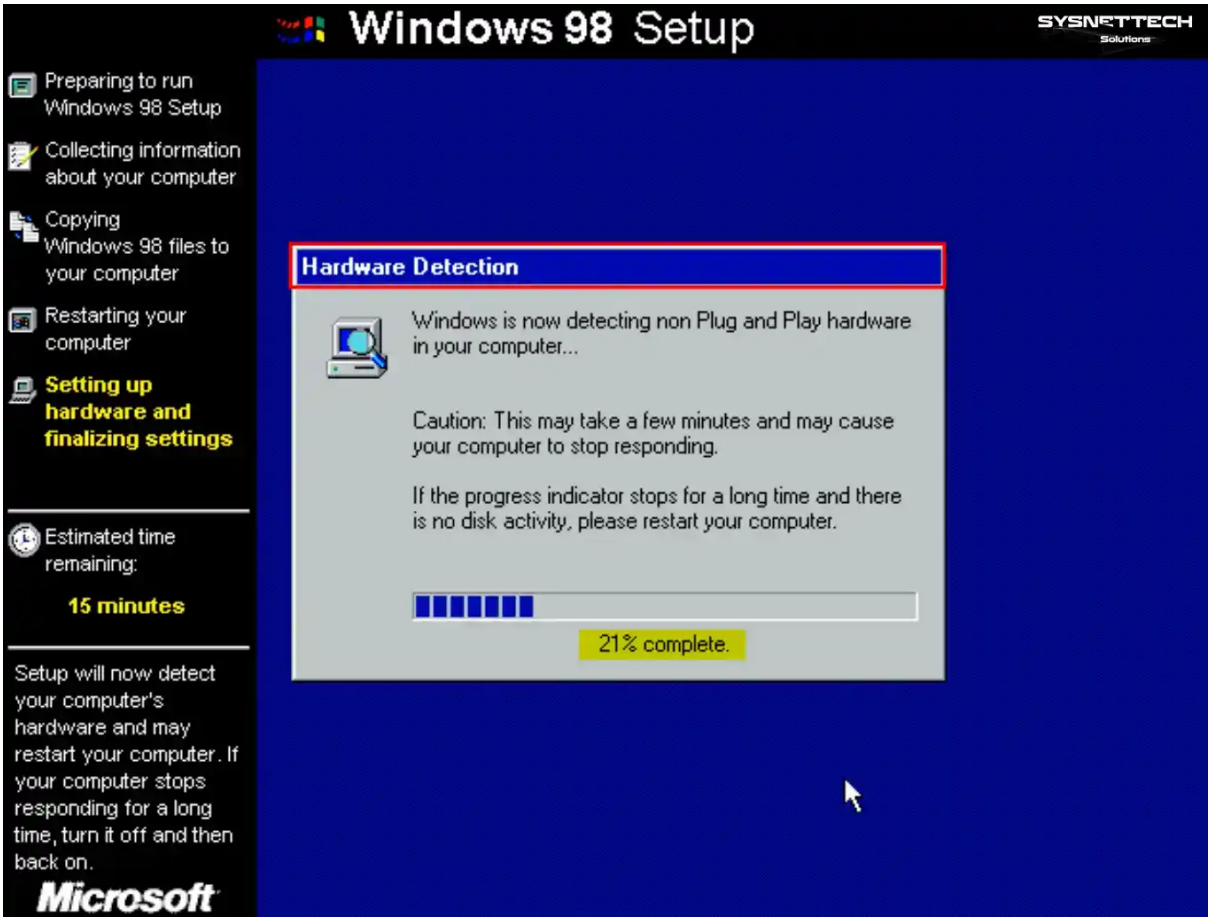
Step 24

After the wizard saves the necessary information, click the Finish button.



Step 25

When your virtual computer restarts, the setup wizard will open again and configure the plug-and-play devices. Wait while the installer scans for non-plug-and-play hardware on the guest machine.


Windows 98 Setup
SYSNETTECH
Solutions
Preparing to run Windows 98 Setup
Collecting information about your computer
Copying Windows 98 files to your computer
Restarting your computer
Setting up hardware and finalizing settings
Estimated time remaining:
15 minutes
Setup will now detect your computer's hardware and may restart your computer. If your computer stops responding for a long time, turn it off and then back on.
Microsoft
Hardware Detection
Windows is now detecting non Plug and Play hardware in your computer...
Caution: This may take a few minutes and may cause your computer to stop responding.
If the progress indicator stops for a long time and there is no disk activity, please restart your computer.
21% complete.

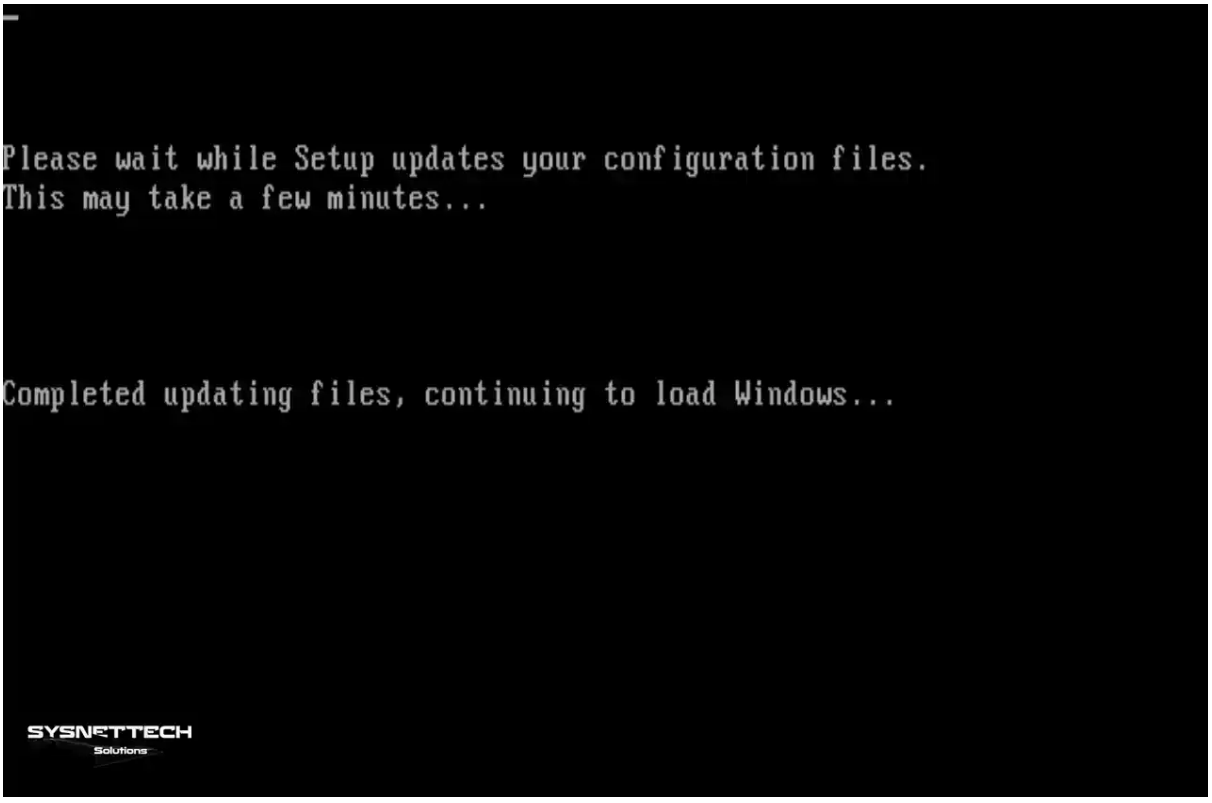
Step 26

Restart your virtual computer when the hardware scan is complete.

Windows 98 Setup
SYSNETTECH
Solutions
Preparing to run Windows 98 Setup
Collecting information about your computer
Copying Windows 98 files to your computer
Restarting your computer
Setting up hardware and finalizing settings
Estimated time remaining:
11 minutes
Setup will now detect your computer's hardware and may restart your computer. If your computer stops responding for a long time, turn it off and then back on.
Microsoft
Restart Computer
Setup needs to restart your computer to continue. Your computer will automatically restart in 15 seconds or when you click 'Restart Now'.
Restart Now

Step 27

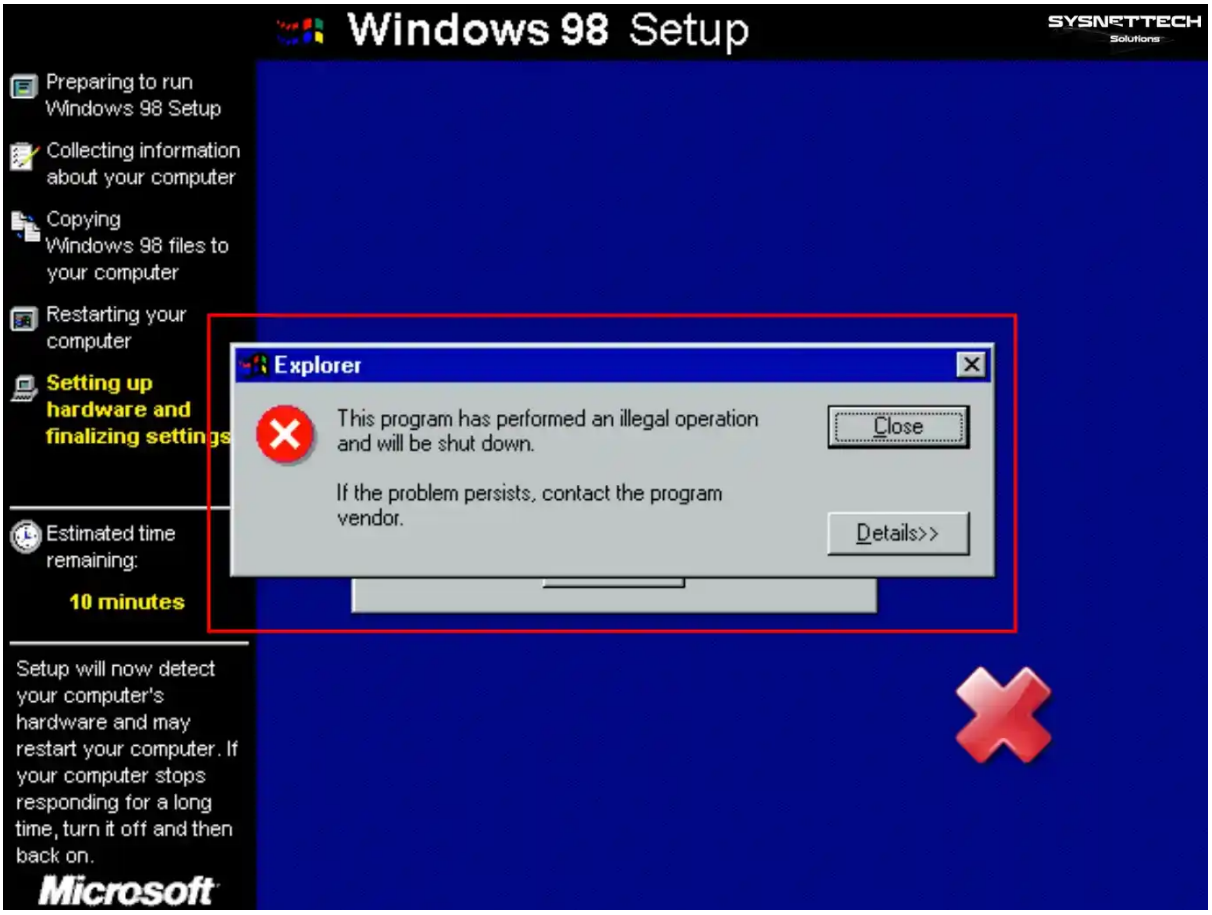
Wait while the setup wizard updates the configuration files.


Please wait while Setup updates your configuration files.
This may take a few minutes...
Completed updating files, continuing to load Windows...
SYSNETTECH
Solutions

Step 28

When the Windows 98 platform restarts, it configures the system settings. However, at this stage, “This program has performed an illegal operation and will be shut down.” If you get an

error, you must patch the guest machine. So click X and then Power Off to turn off the virtual PC.

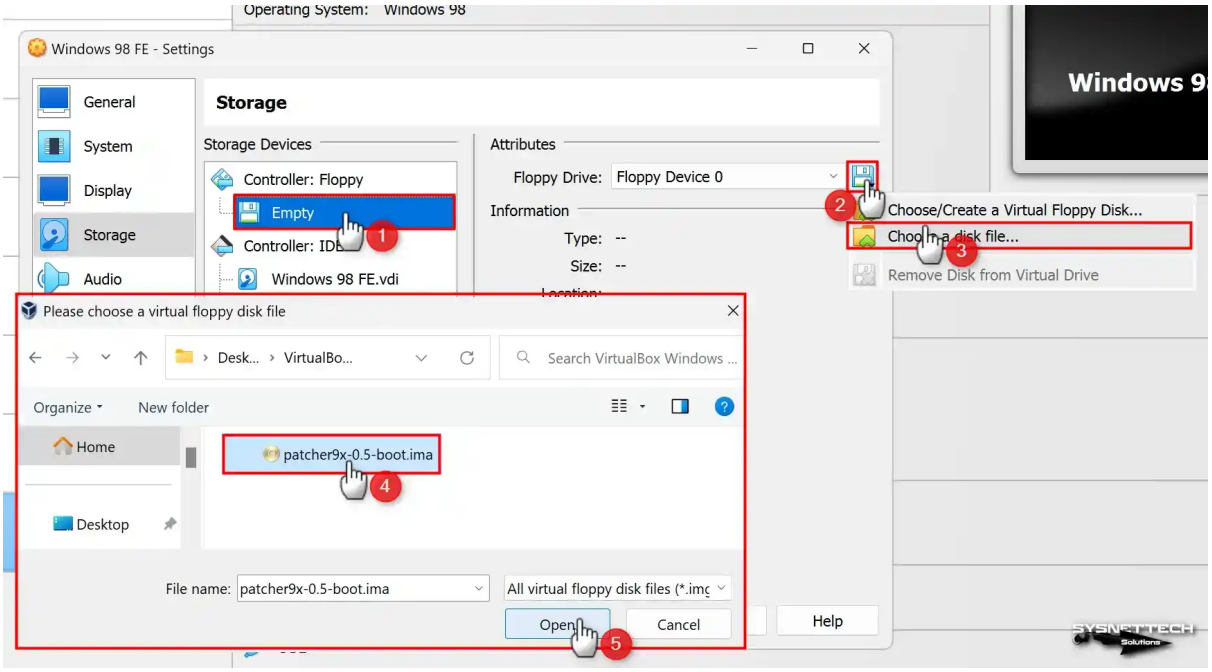

Windows 98 Setup
SYSNETTECH
Preparing to run Windows 98 Setup
Collecting information about your computer
Copying Windows 98 files to your computer
Restarting your computer
Setting up hardware and finalizing settings
Estimated time remaining:
10 minutes
Setup will now detect your computer's hardware and may restart your computer. If your computer stops responding for a long time, turn it off and then back on.
Microsoft
Explorer
This program has performed an illegal operation and will be shut down.
If the problem persists, contact the program vendor.
Close
Details>>

Step 29

After turning off the virtual machine, open its settings and add the Patcher9x-0.5-boot.ima file you downloaded from the button below to the Floppy device from the Storage settings and rerun the VM.

NOTE: Ensure the Floppy device is set as the primary boot device. If not, press F12 when you start the guest machine, open the Oracle Boot menu, and press the “F” key to select Floppy.

You can download the Patcher9x-0.5-boot.ima file directly to your computer [from the GitHub website shared by the developer](#) or by clicking the button below.

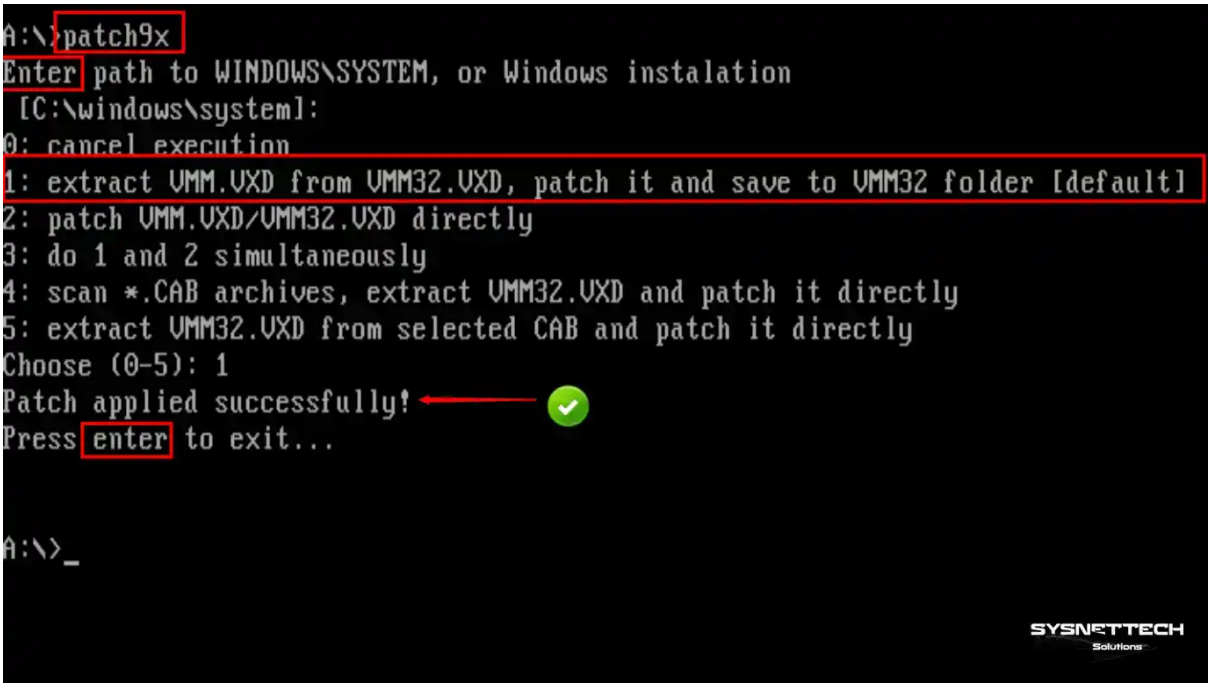


Step 30

When you boot the guest machine from Floppy, execute the “patch9x” command on the A:\ command line and press Enter directly to patch to WINDOWS\SYSTEM.

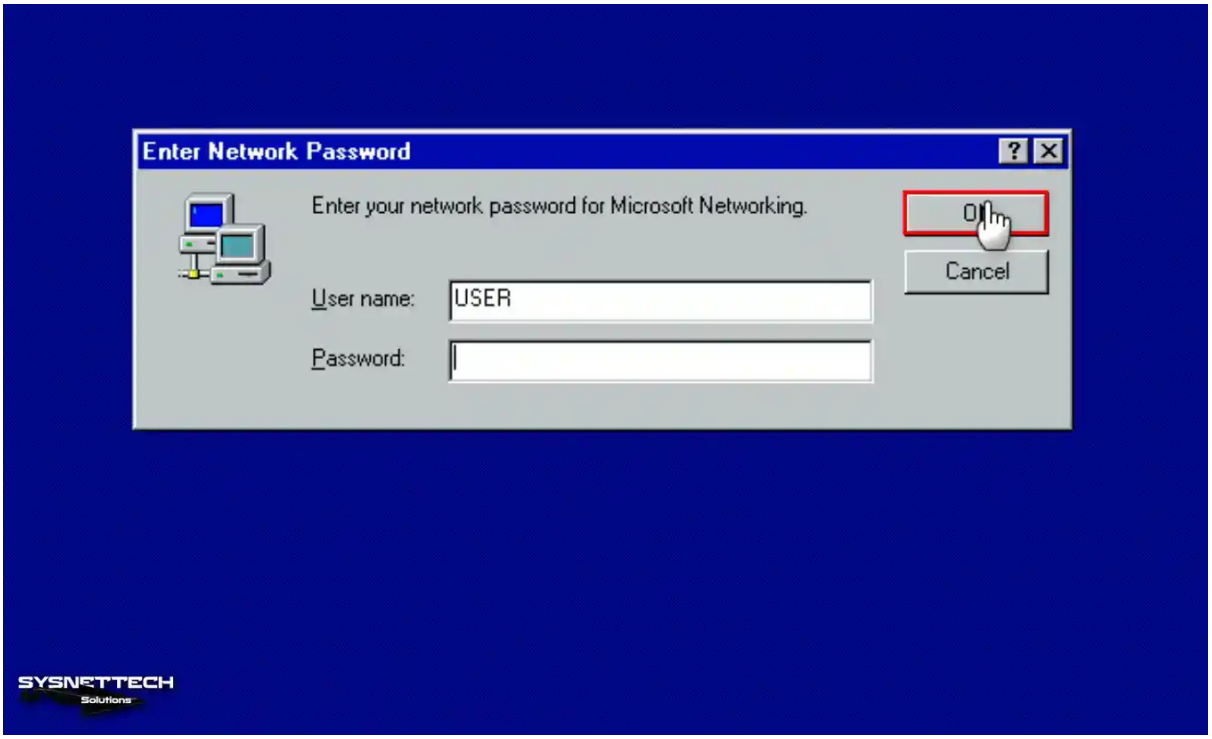
```
patch9x
```

From the drop-down options, select the default option suggested by the developer, 1, and press Enter again. After configuring the processor settings of the virtual PC, start your VM.


A:\>patch9x
Enter path to WINDOWS\SYSTEM, or Windows instalation
[C:\windows\system]:
0: cancel execution
1: extract VMM.VXD from VMM32.VXD, patch it and save to VMM32 folder [default]
2: patch VMM.VXD/VMM32.VXD directly
3: do 1 and 2 simultaneously
4: scan *.CAB archives, extract VMM32.VXD and patch it directly
5: extract VMM32.VXD from selected CAB and patch it directly
Choose (0-5): 1
Patch applied successfully!
Press enter to exit...
A:\>_
SYSNETTECH
Solutions

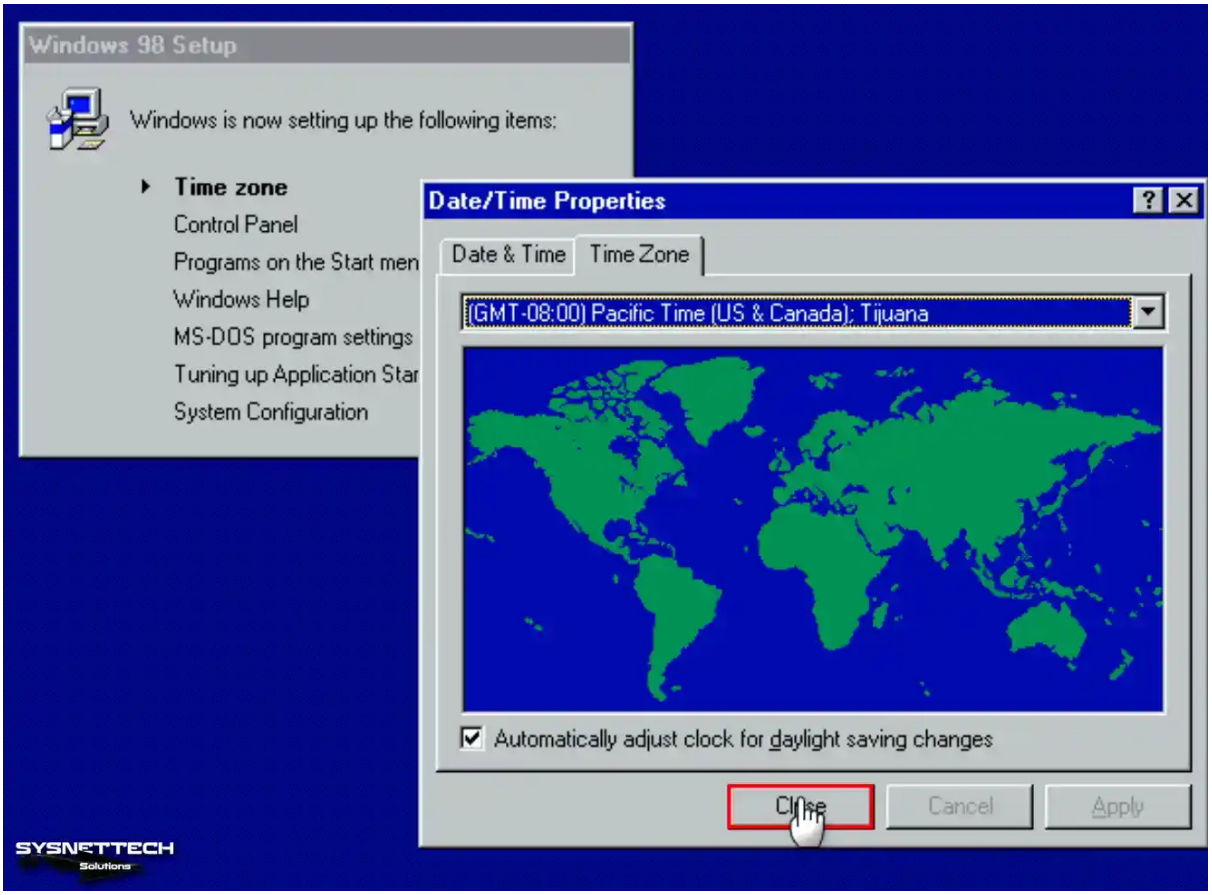
Step 31

Upon powering your Windows 98 OS, you will be greeted with the login screen. Enter the username you created into the designated field and click the OK button.



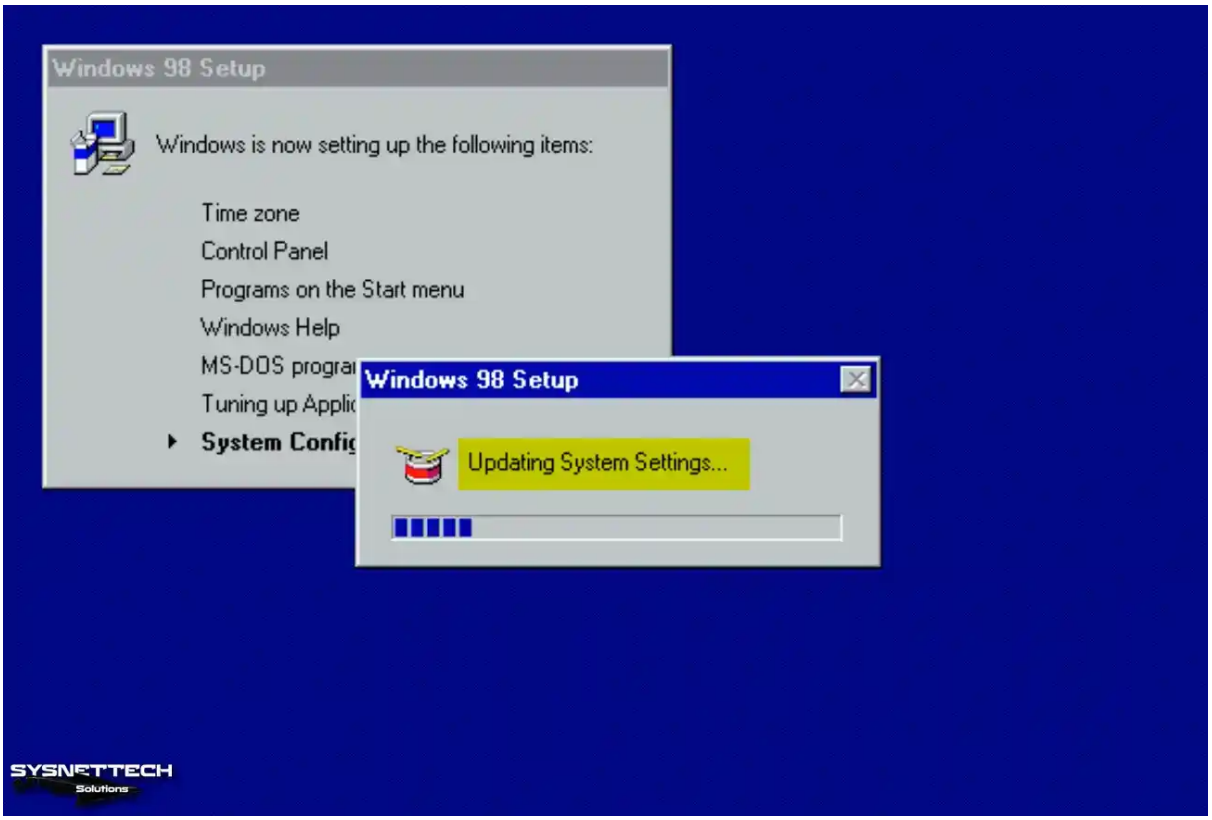
Step 32

Configure your system’s time and date settings and click the Close button.



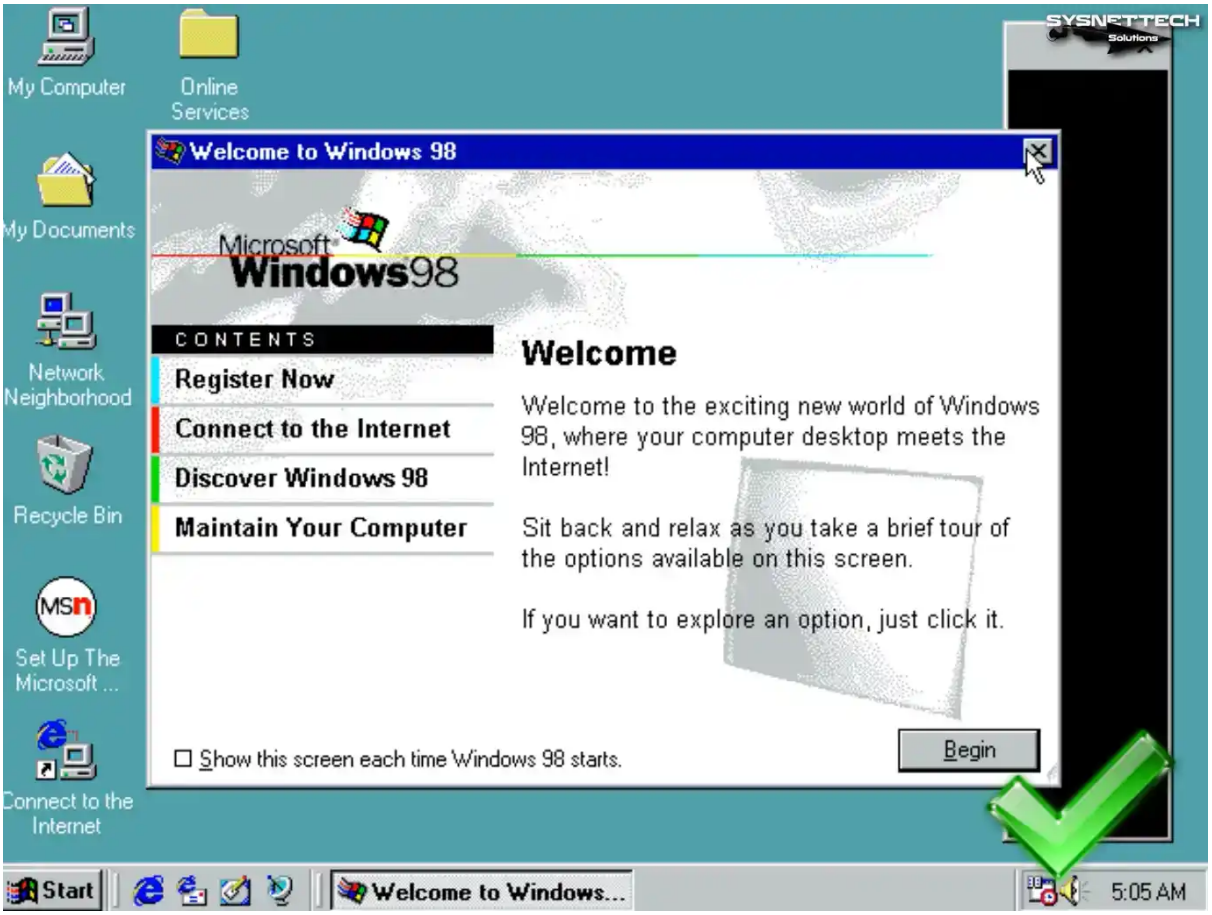
Step 33

Wait while the setup wizard configures the operating system's control panel items, time and date settings, Windows help, and programs in the start menu.



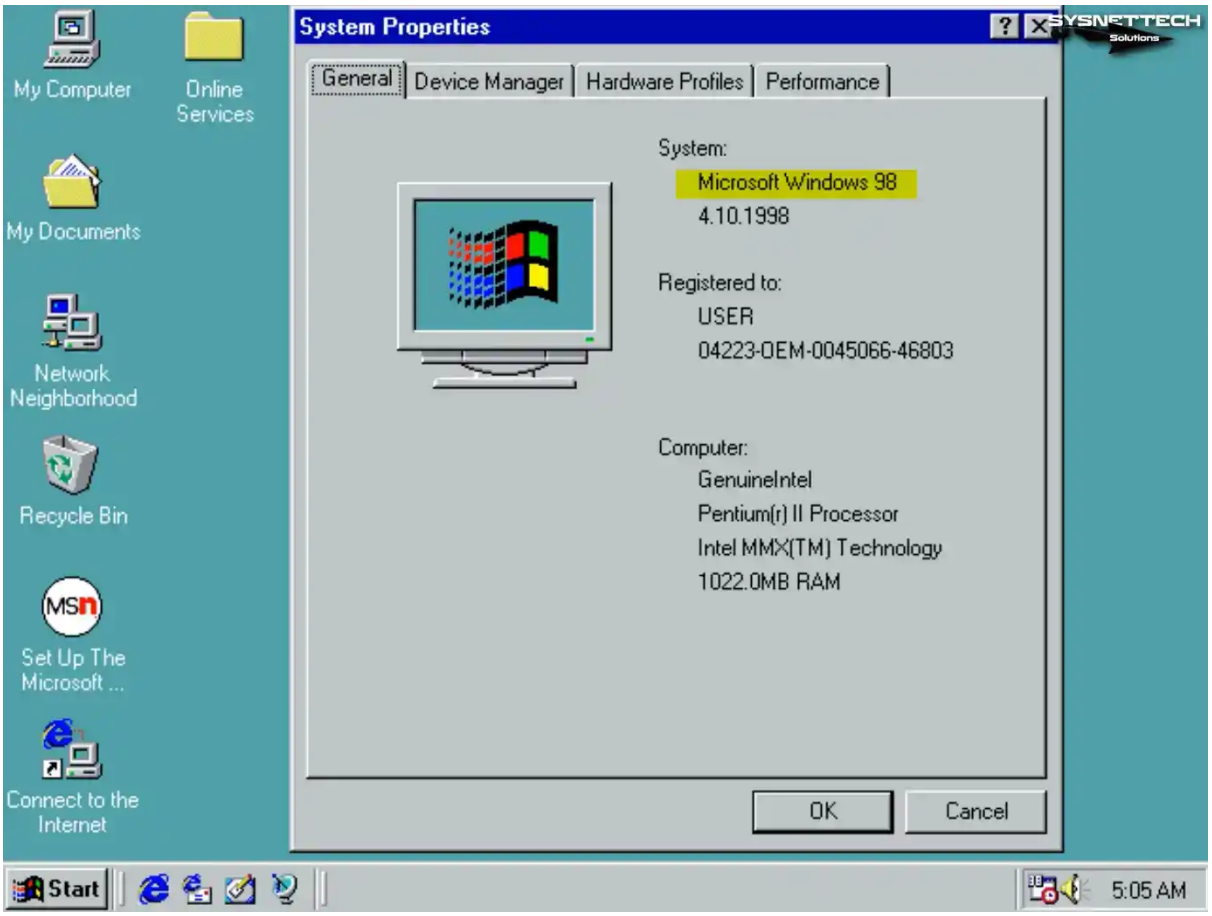
Step 34

To close the Windows 98 welcome window at the next boot, uncheck the appropriate option and close the window.


My Computer
Online Services
My Documents
Network Neighborhood
Recycle Bin
Set Up The Microsoft ...
Connect to the Internet
Welcome to Windows 98
Microsoft Windows98
CONTENTS
Register Now
Connect to the Internet
Discover Windows 98
Maintain Your Computer
Welcome
Welcome to the exciting new world of Windows 98, where your computer desktop meets the Internet!
Sit back and relax as you take a brief tour of the options available on this screen.
If you want to explore an option, just click it.
Show this screen each time Windows 98 starts.
Begin
Start
Welcome to Windows...
5:05 AM

Step 35

Right-click on My Computer and choose Properties to access the comprehensive system properties of Windows.



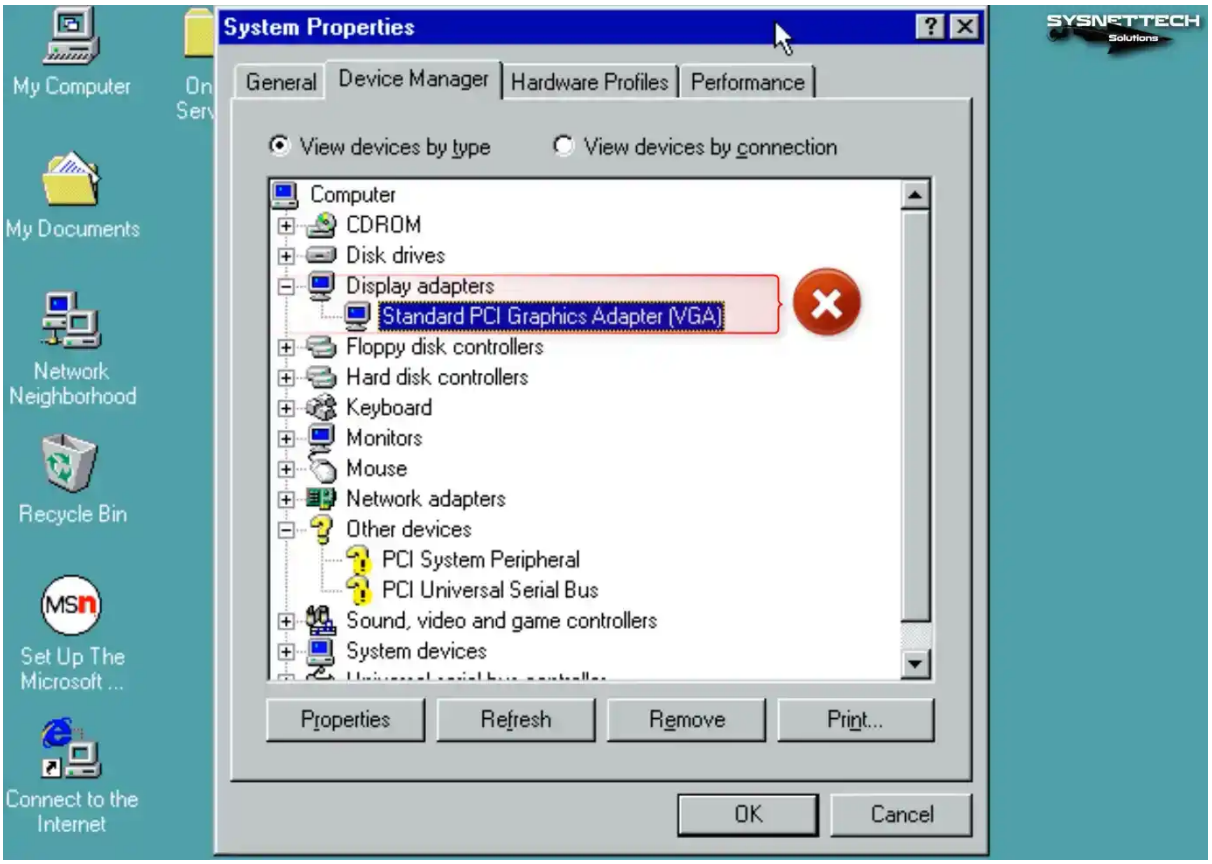
How to Install Display Driver and Change Screen Resolution/Color

The VirtualBox virtualization program does not officially support Guest Additions for 9x versions of Windows. Therefore, you may need help fully installing the drivers of the old platforms you installed on the virtual machine.

Once you have successfully installed Windows 98, it is essential to configure the display adapter to modify the screen resolution per your requirements.

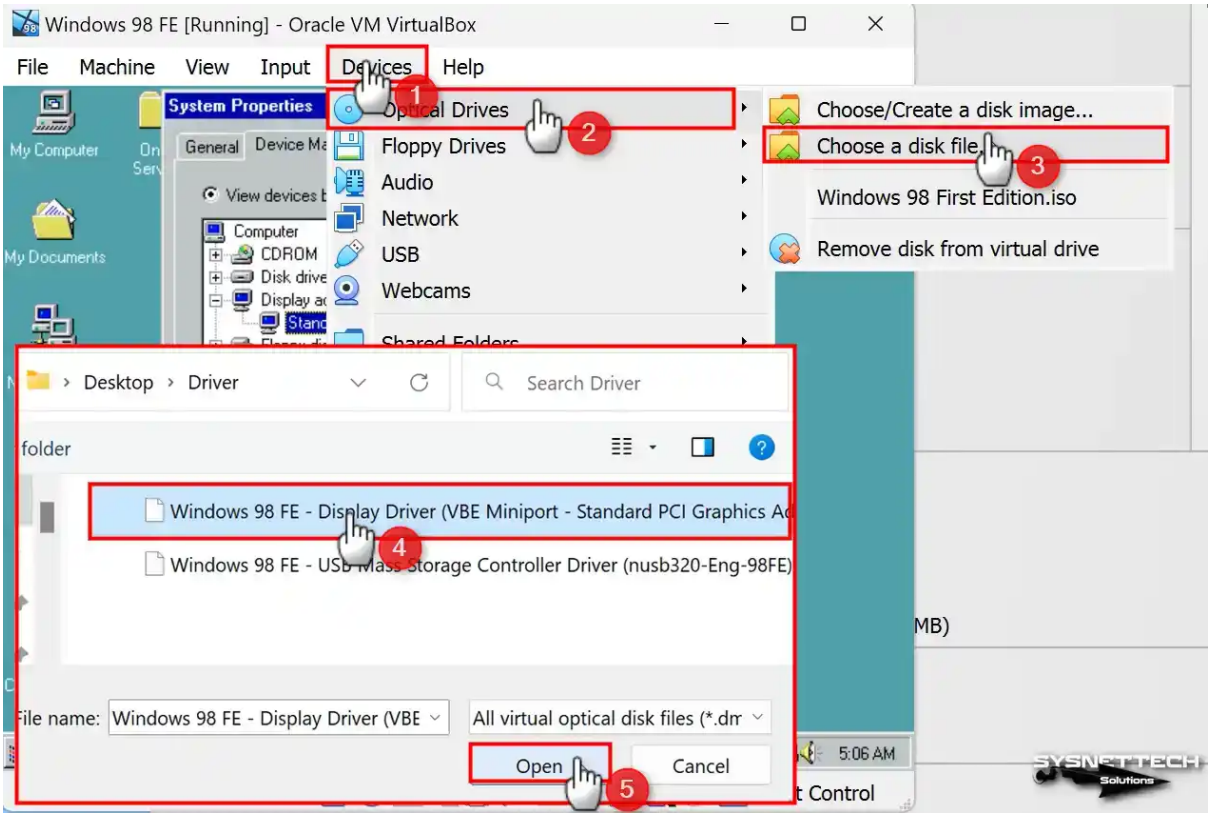
Step 1

First, open My Computer / Properties / Device Manager on the guest machine and check the device under Display Adapters.



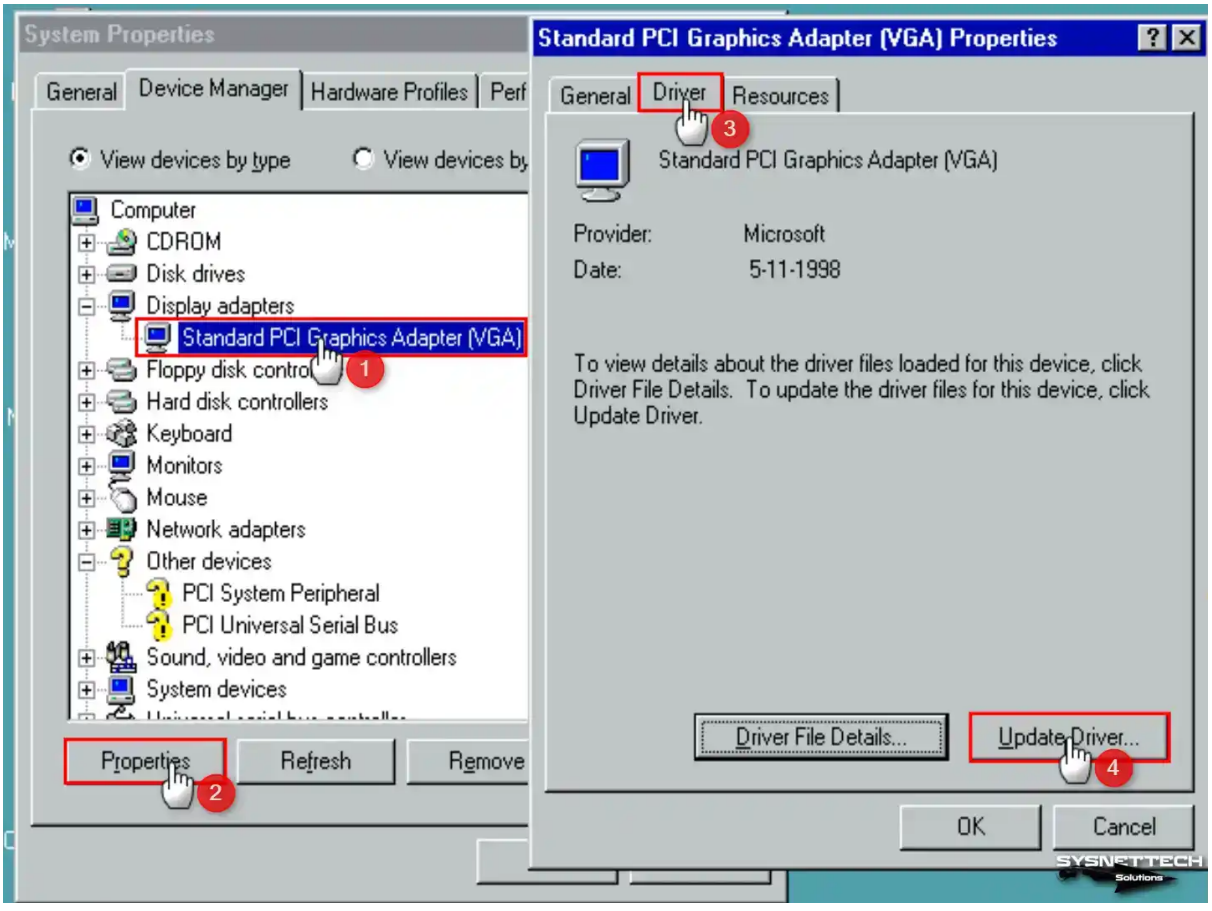
Step 2

Then, while the guest machine is running, click the CD/DVD icon and click Choose a disk file from the options that appear. Select the Windows 98 FE Display Driver (VBE Miniport) ISO file you downloaded to your computer from the table below the article and click the Open button.



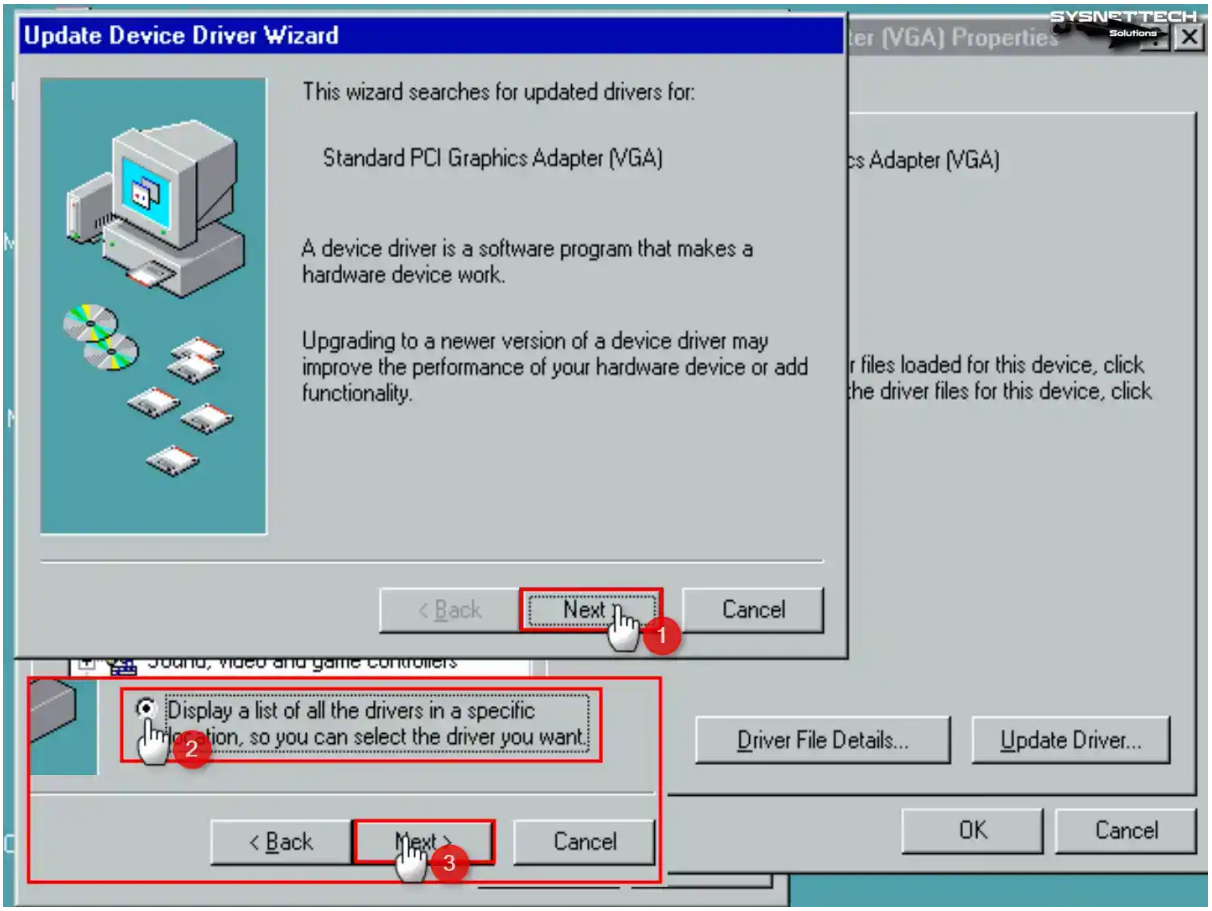
Step 3

After double-clicking on Standard PCI Graphics Adapter (VGA), click the Driver tab in the open window, and then click the Update Driver button. Then continue by clicking Next in the driver update window.



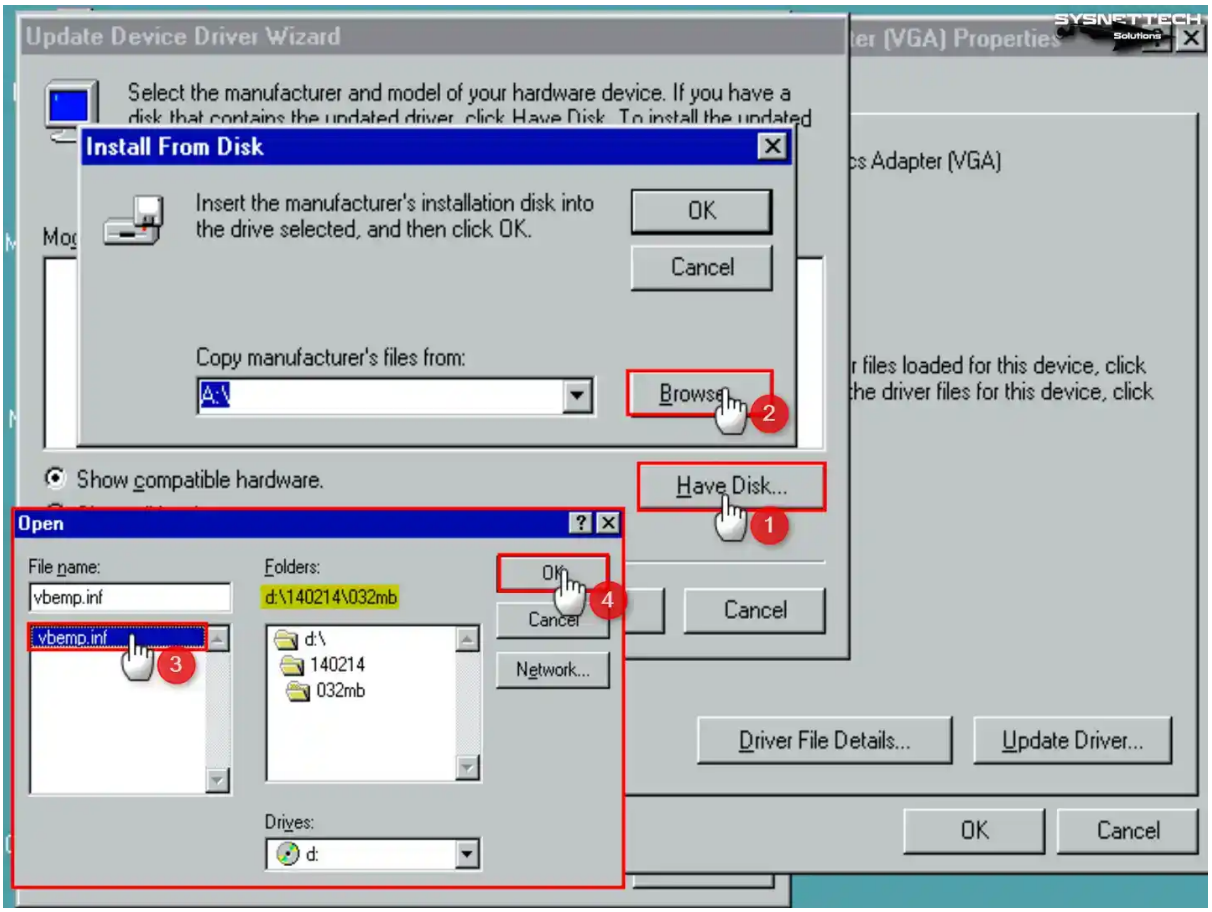
Step 4

Check the View all drivers list option and click Next. Then click Next in the Update Device Driver Wizard window.


Update Device Driver Wizard
This wizard searches for updated drivers for:
Standard PCI Graphics Adapter (VGA)
A device driver is a software program that makes a hardware device work.
Upgrading to a newer version of a device driver may improve the performance of your hardware device or add functionality.
< Back
Next >
Cancel
Display a list of all the drivers in a specific location, so you can select the driver you want.
Driver File Details...
Update Driver...
OK
Cancel
1
2
3

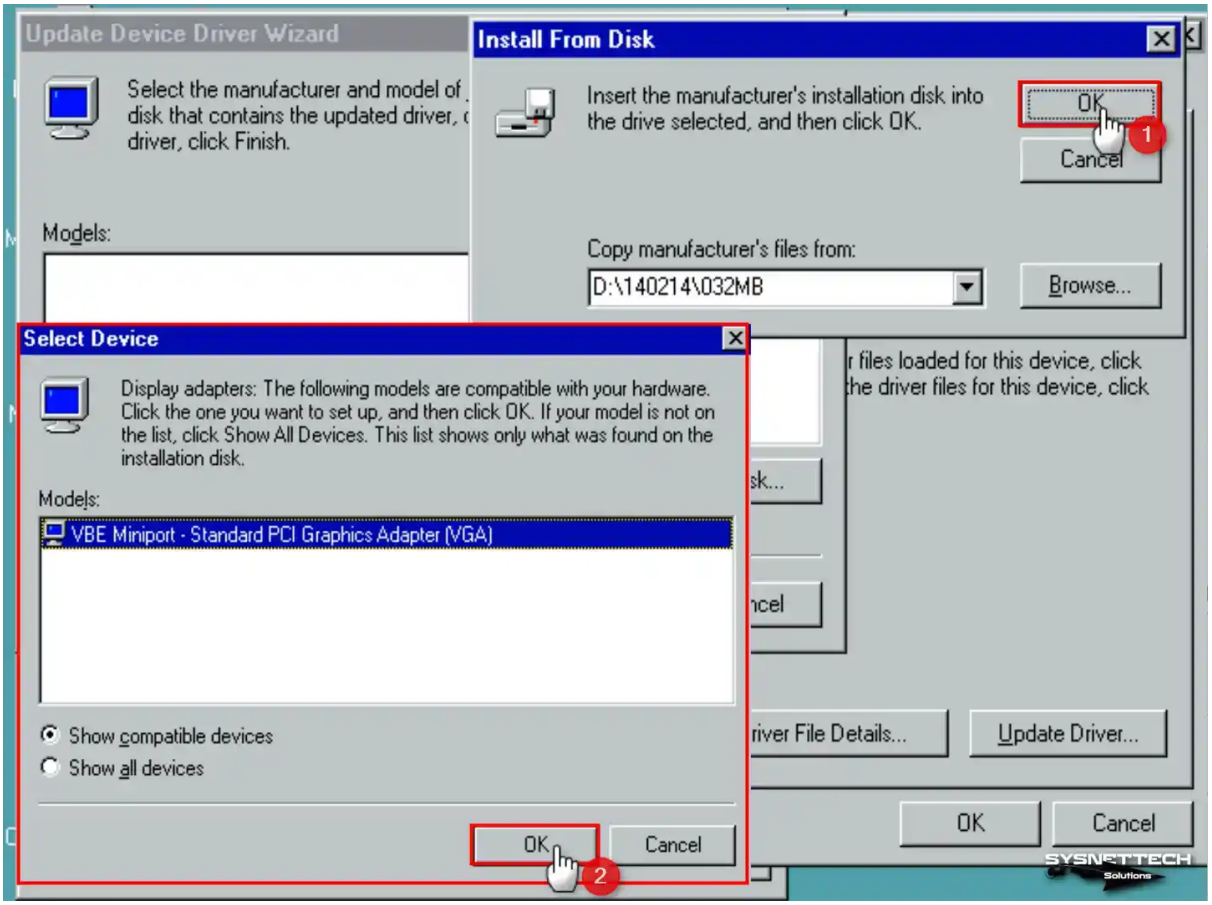
Step 5

This time, click the Have Disk button in the open window and then click Browse. To update the driver manually, open the ISO file location and select the vbemp.inf file in the 032mb folder and click OK to continue.



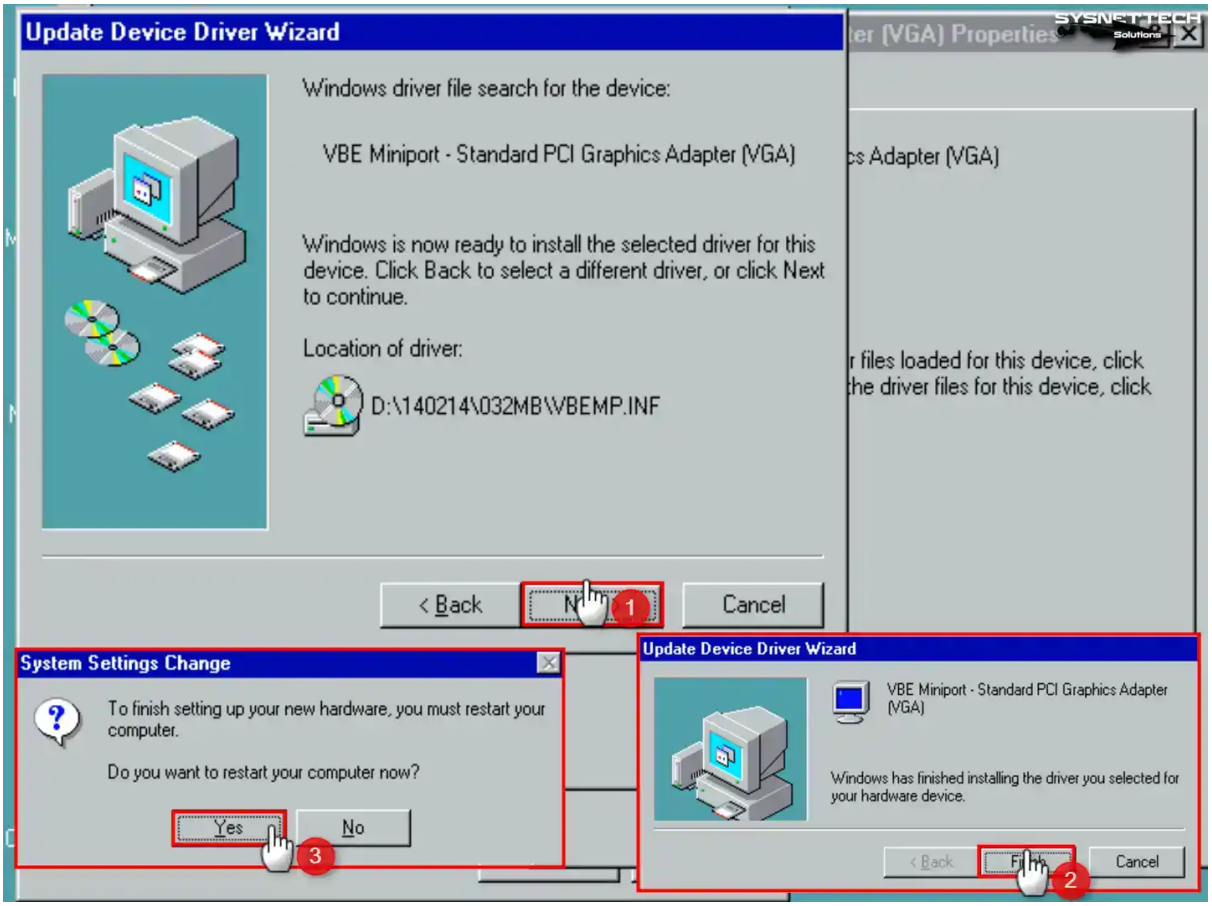
Step 6

Select VBE Miniport – Standard PCI Graphics Adapter (VGA) and click Next after checking the driver location.


Update Device Driver Wizard
Select the manufacturer and model of
disk that contains the updated driver,
driver, click Finish.
Models:
Install From Disk
Insert the manufacturer's installation disk into the drive selected, and then click OK.
OK
Cancel
Copy manufacturer's files from:
D:\140214\032MB
Browse...
Select Device
Display adapters: The following models are compatible with your hardware. Click the one you want to set up, and then click OK. If your model is not on the list, click Show All Devices. This list shows only what was found on the installation disk.
Models:
VBE Miniport - Standard PCI Graphics Adapter (VGA)
Show compatible devices
Show all devices
OK
Cancel
Update Driver...
OK
Cancel

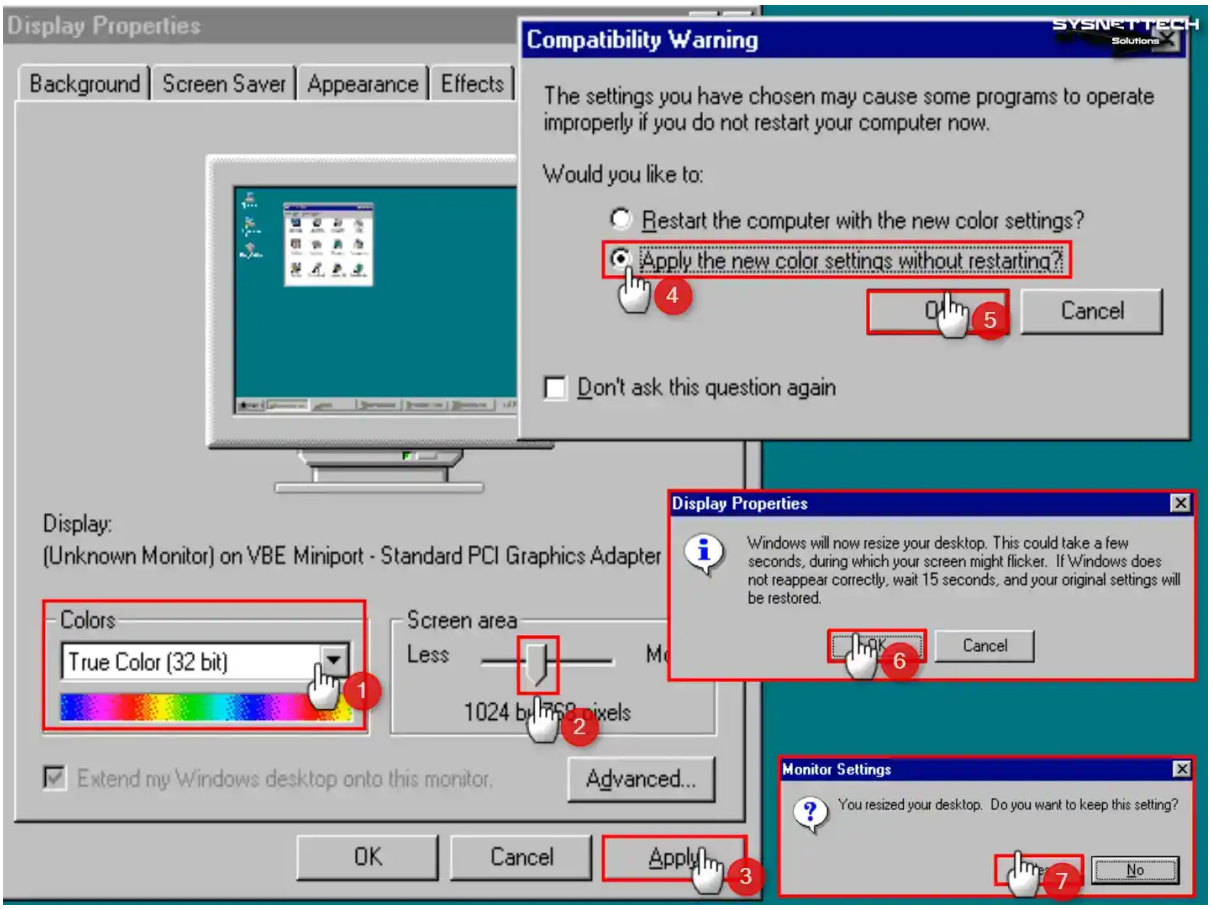
Step 7

After updating the display device, restart your virtual machine.


Update Device Driver Wizard
Windows driver file search for the device:
VBE Miniport - Standard PCI Graphics Adapter (VGA)
Windows is now ready to install the selected driver for this device. Click Back to select a different driver, or click Next to continue.
Location of driver:
D:\140214\032MB\VBEMP.INF
< Back
Cancel
System Settings Change
To finish setting up your new hardware, you must restart your computer.
Do you want to restart your computer now?
Yes
No
Update Device Driver Wizard
VBE Miniport - Standard PCI Graphics Adapter (VGA)
Windows has finished installing the driver you selected for your hardware device.
< Back
Cancel

Step 8

After your VM is turned on, open the Right Click / Display Properties on the desktop and change the value under Colors to True Color (32-bit), and after setting the screen resolution to 1024 x 768, apply the changes without restarting the virtual computer.

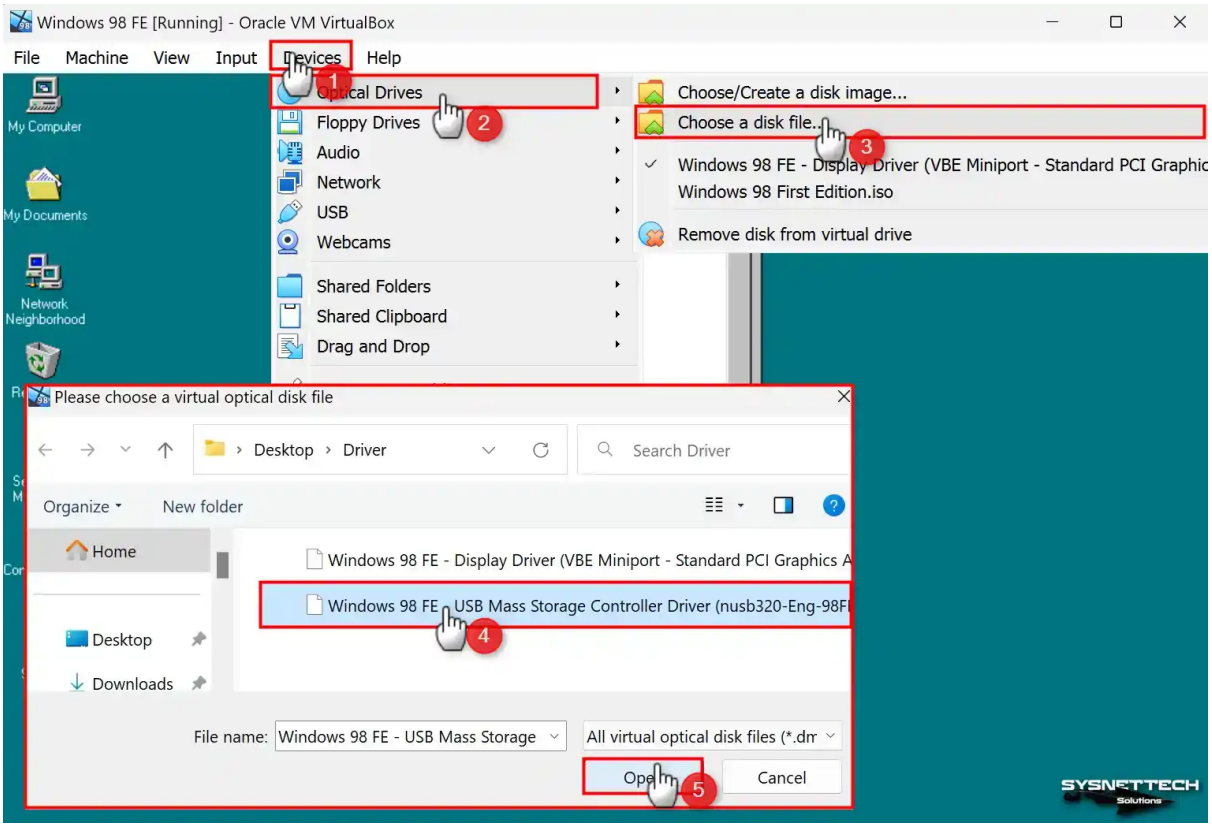


How to Install USB 2.0 Driver

Drivers of USB 2.0 controller in Windows 98 virtual machine are not installed automatically after setup. So before you can use the flash drives in your VM, you must install the USB drivers.

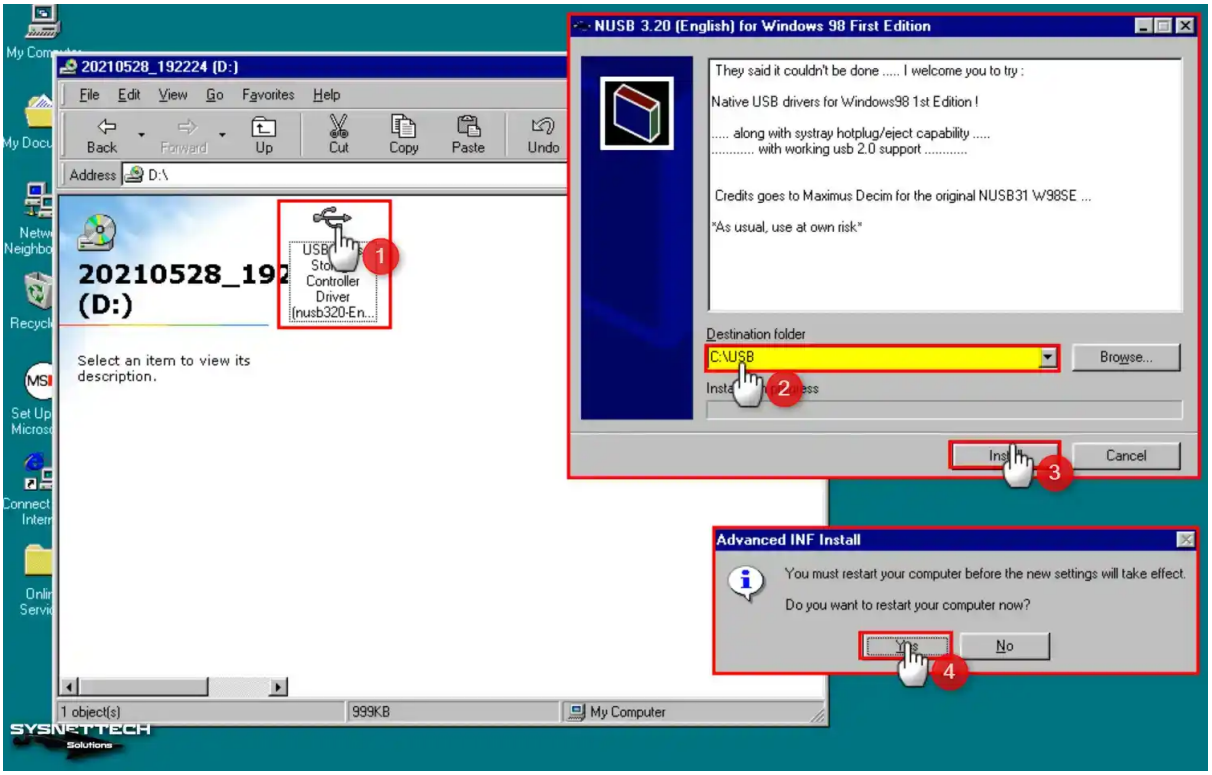
Step 1

Select the USB Mass Storage Controller Driver (nusb320-Eng-98FE) ISO file you downloaded to your computer from the table below the article and click the Open button.



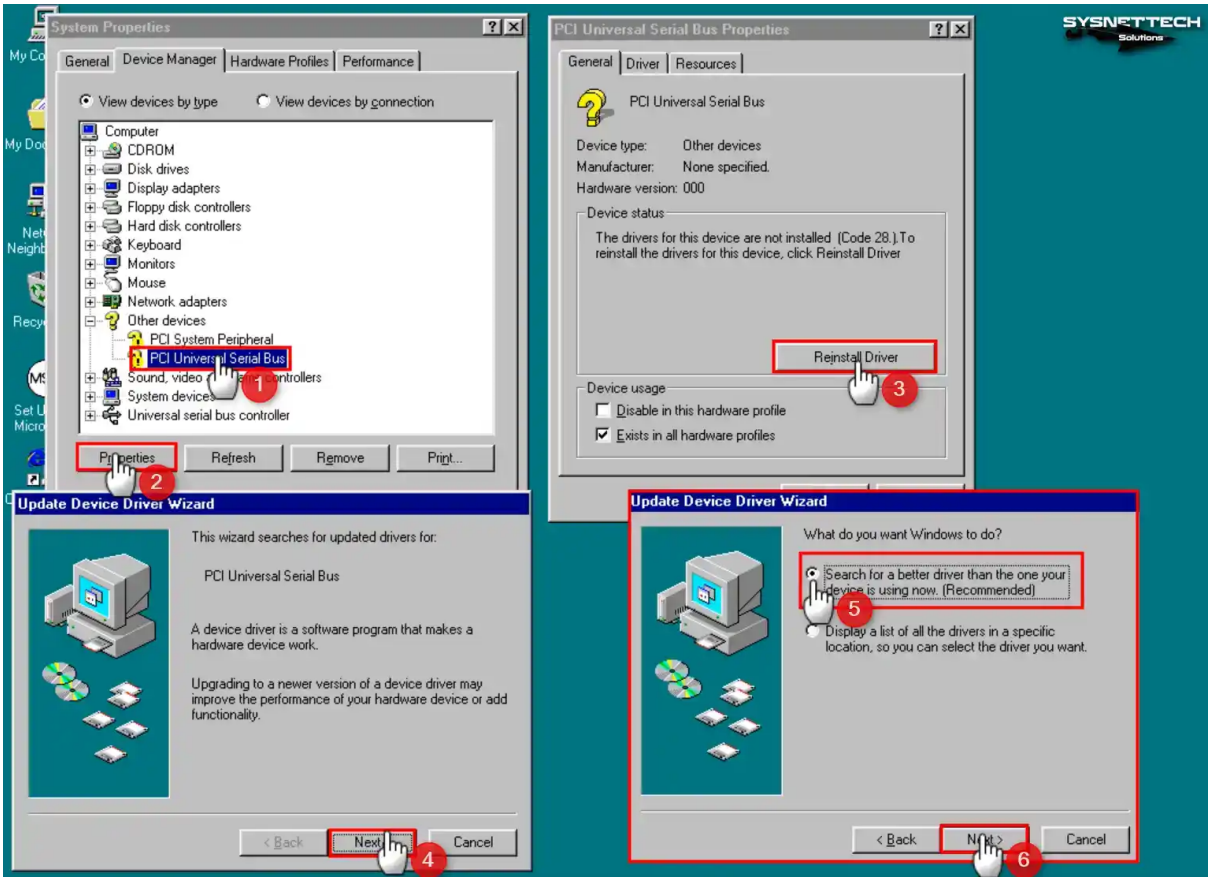
Step 2

Create a new folder named USB on the desktop and after viewing the CD content, double-click the USB drive and extract the archived file to C:\USB.


20210528_192224 (D:)
File Edit View Go Favorites Help
Back Forward Up Cut Copy Paste Undo
Address D:\
20210528_192
(D:)
Select an item to view its description.
Controller Driver (nusb320-En...
1 object(s)
999KB
My Computer
NUSB 3.20 (English) for Windows 98 First Edition
They said it couldn't be done ..... I welcome you to try :
Native USB drivers for Windows98 1st Edition !
..... along with systray hotplug/eject capability .....
..... with working usb 2.0 support .....
Credits goes to Maximus Decim for the original NUSB31 W98SE ...
As usual, use at own risk
Destination folder
C:\USB
Browse...
Cancel
Advanced INF Install
You must restart your computer before the new settings will take effect.
Do you want to restart your computer now?
No
SYSNETTECH

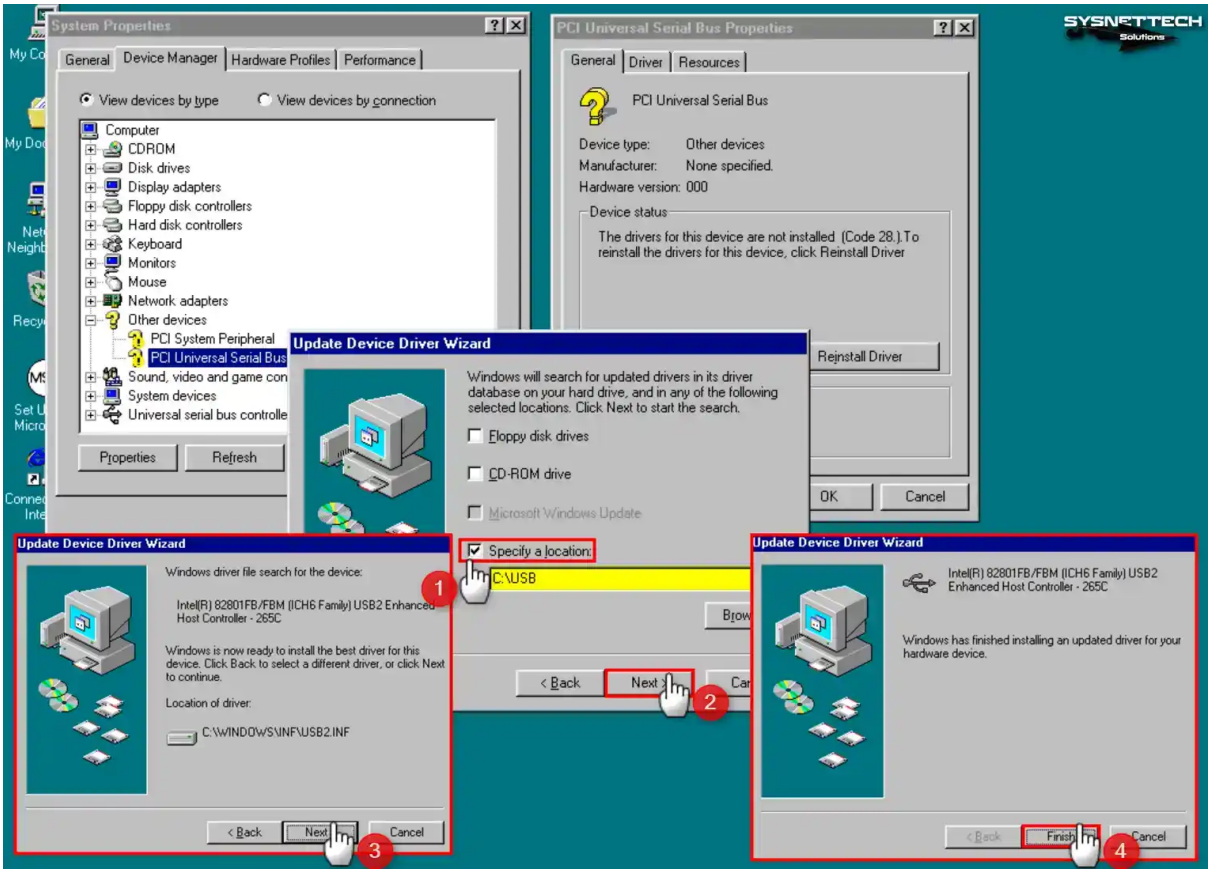
Step 3

Click the Reinstall Driver button in the device manager to install the driver for the PCI Universal Serial Bus device, and click Next in the following windows.



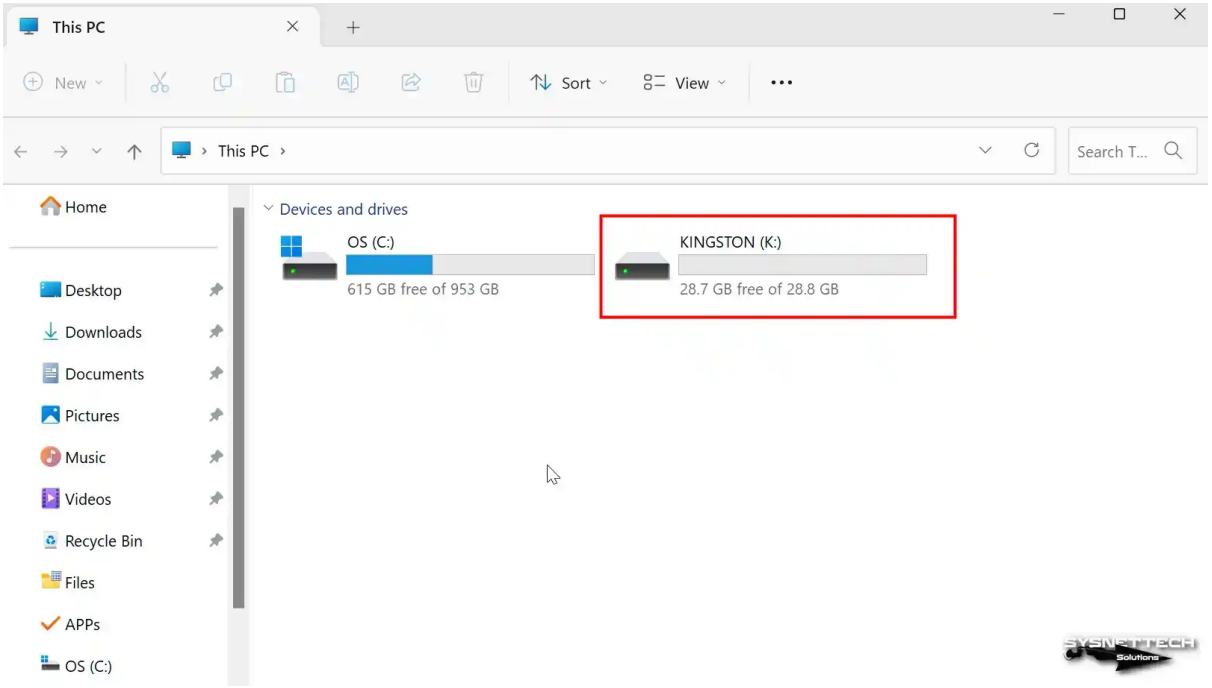
Step 4

To show the location of the driver files you extracted to the folder, check the Specify a location option, click the Browse button to specify the location of the USB folder, and then install the driver.



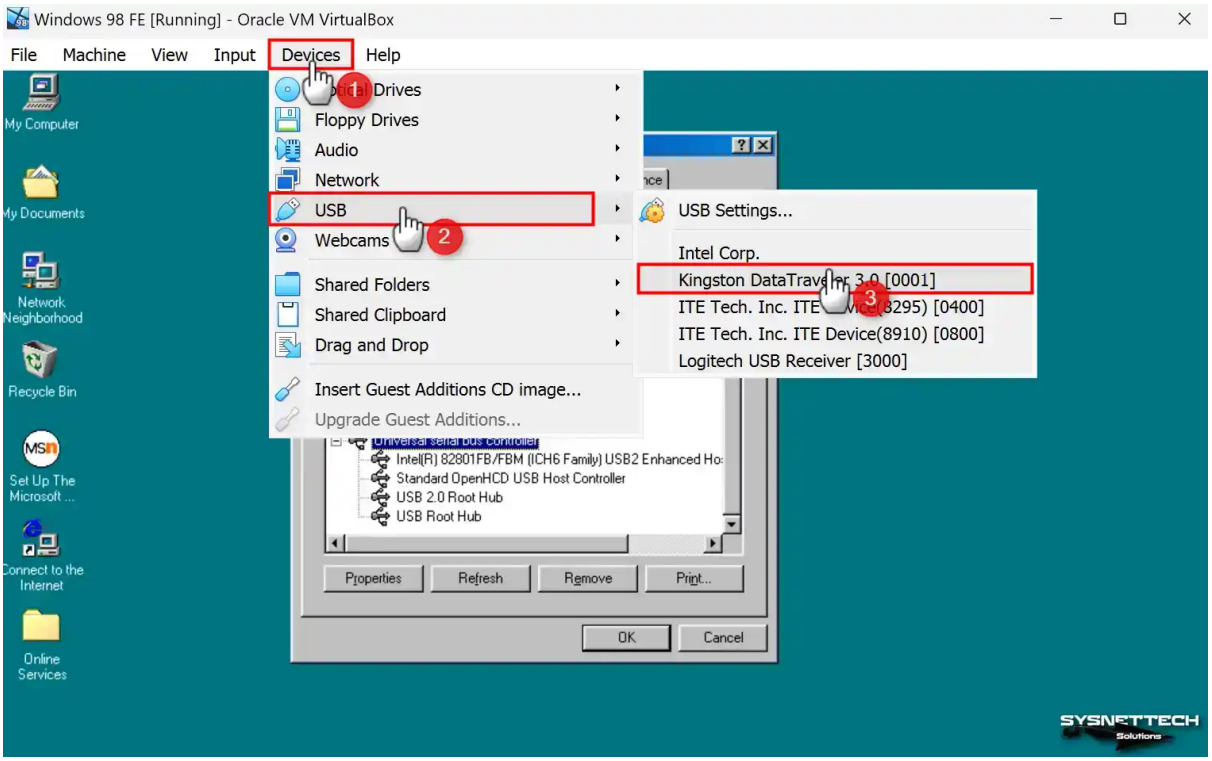
Step 5

Insert your flash disk memory into any USB 2.0 ports on your host computer. Next, format the disk as FAT32 and create a folder named “Backup” as an illustrative example.



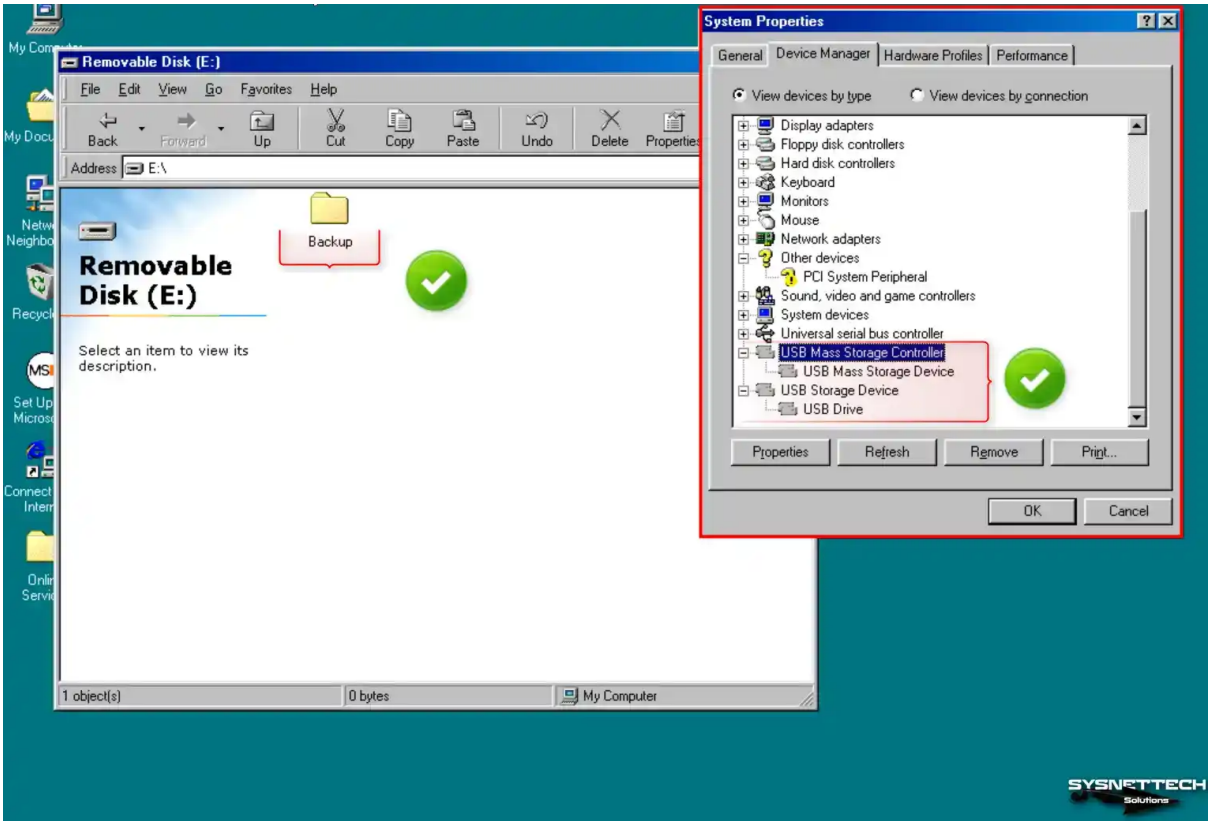
Step 6

Click Devices / USB / Kingston DataTraveler to add your USB stick to the guest machine.



Step 7

You can check that your USB flash drive works on my computer or device manager.

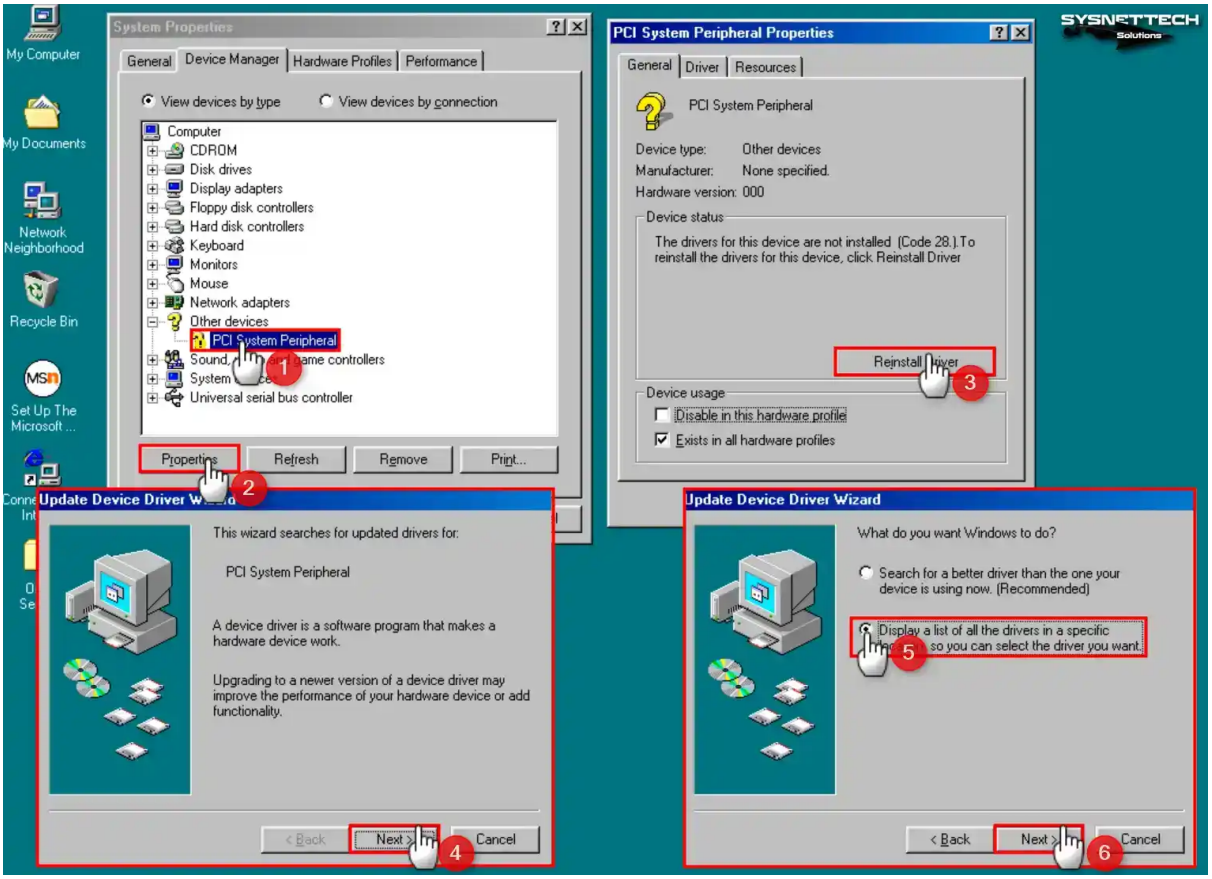


How to Install PCI System Peripheral Driver

You may be unable to install drivers for some devices because Windows 98 is not fully supported by the VBox software. This is fine for some devices; your software will run smoothly.

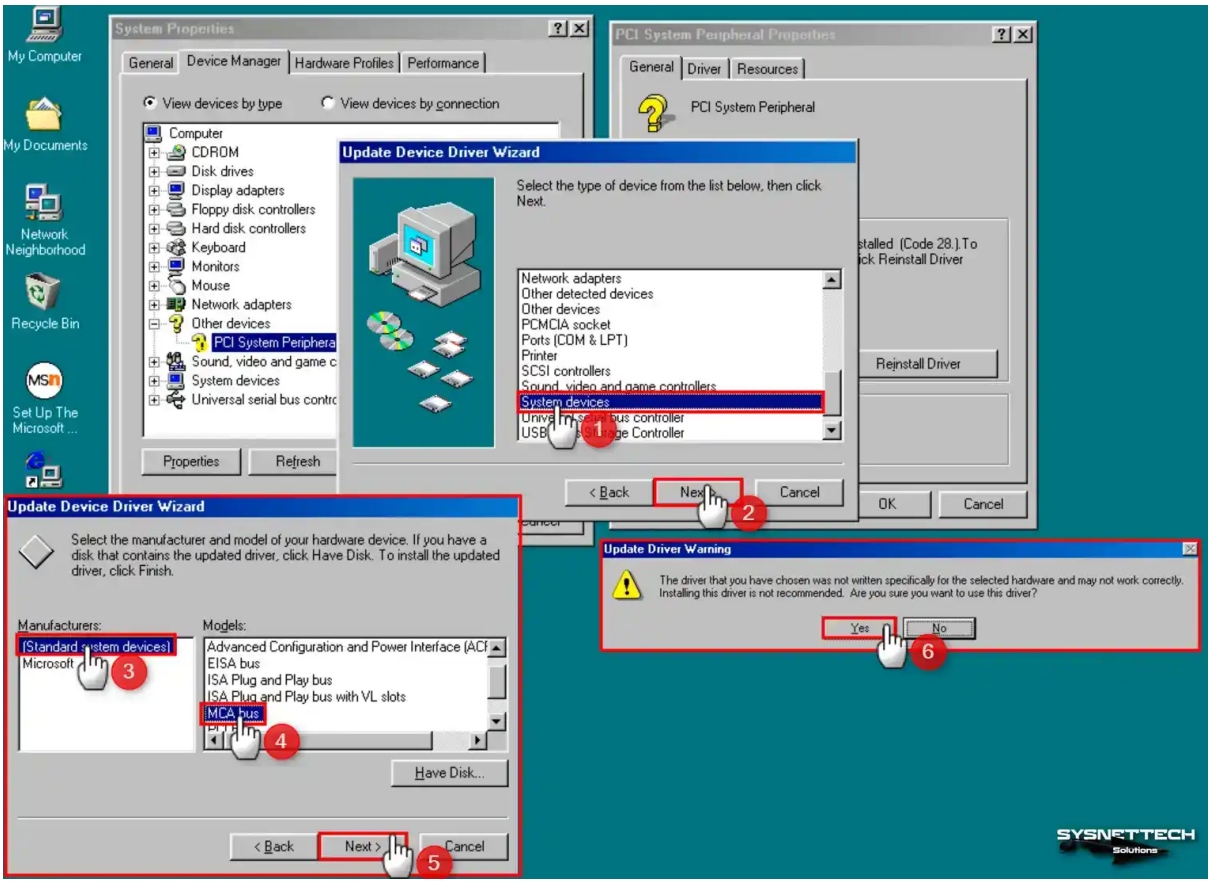
Step 1

Click the Properties / Reinstall Driver button to install the driver for the PCI System Peripheral device. After clicking Next in the driver update window, select view all drivers and continue.


System Properties
General Device Manager Hardware Profiles Performance
View devices by type
View devices by connection
Computer
CDROM
Disk drives
Display adapters
Floppy disk controllers
Hard disk controllers
Keyboard
Monitors
Mouse
Network adapters
Other devices
PCI System Peripheral
Universal serial bus controller
Properties
Refresh
Remove
Print...
1
2
PCI System Peripheral Properties
General Driver Resources
PCI System Peripheral
Device type: Other devices
Manufacturer: None specified.
Hardware version: 000
Device status
The drivers for this device are not installed. (Code 28.) To reinstall the drivers for this device, click Reinstall Driver.
Reinstall Driver...
3
Device usage
Disable in this hardware profile
Exists in all hardware profiles
Update Device Driver Wizard
This wizard searches for updated drivers for:
PCI System Peripheral
A device driver is a software program that makes a hardware device work.
Upgrading to a newer version of a device driver may improve the performance of your hardware device or add functionality.
< Back
Next >
Cancel
4
Update Device Driver Wizard
What do you want Windows to do?
Search for a better driver than the one your device is using now. (Recommended)
Display a list of all the drivers in a specific location, so you can select the driver you want.
5
< Back
Next >
Cancel
6
SYSNETTECH Solutions

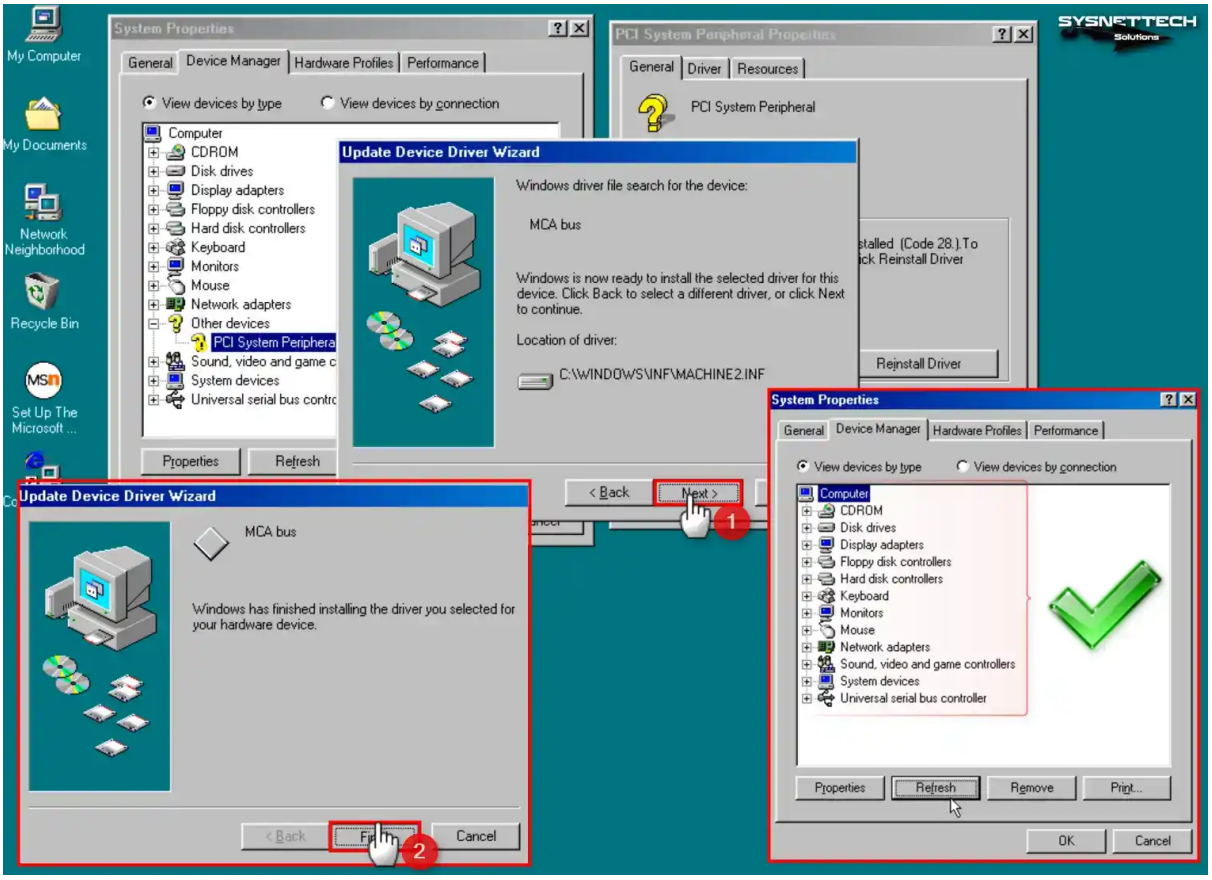
Step 2

In the driver list that opens, select System Devices, and proceed. Then choose System Standard Devices / MCA Bus from the Manufacturers section and confirm the installation of the driver.



Step 3

You will see that all drivers have been successfully installed by clicking the Refresh button in the device manager and scanning for uninstalled drivers.

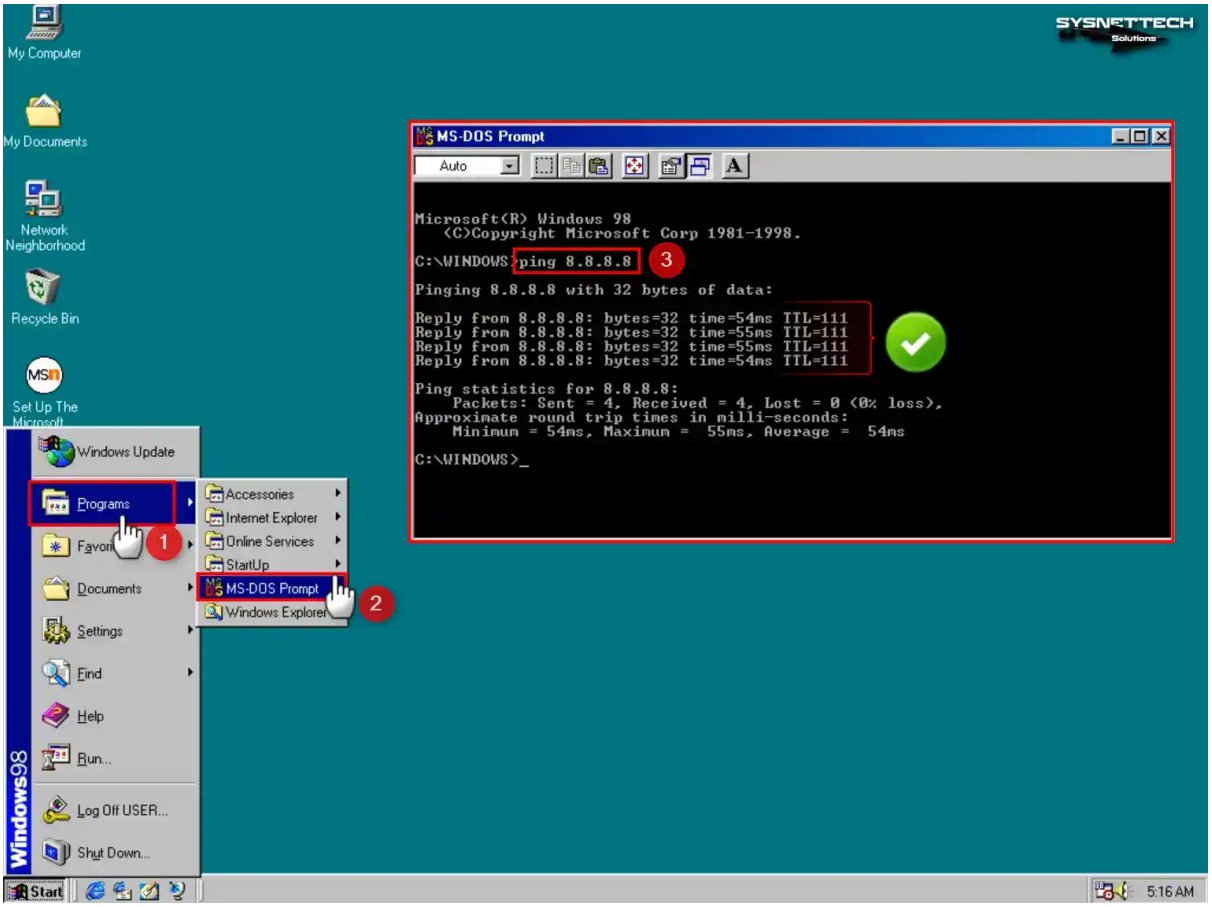


How to Configure and Check Internet Connection

Since the network connection of guest machines is automatically configured in the Oracle VM VirtualBox program, every virtual machine you set up will have an Internet connection.

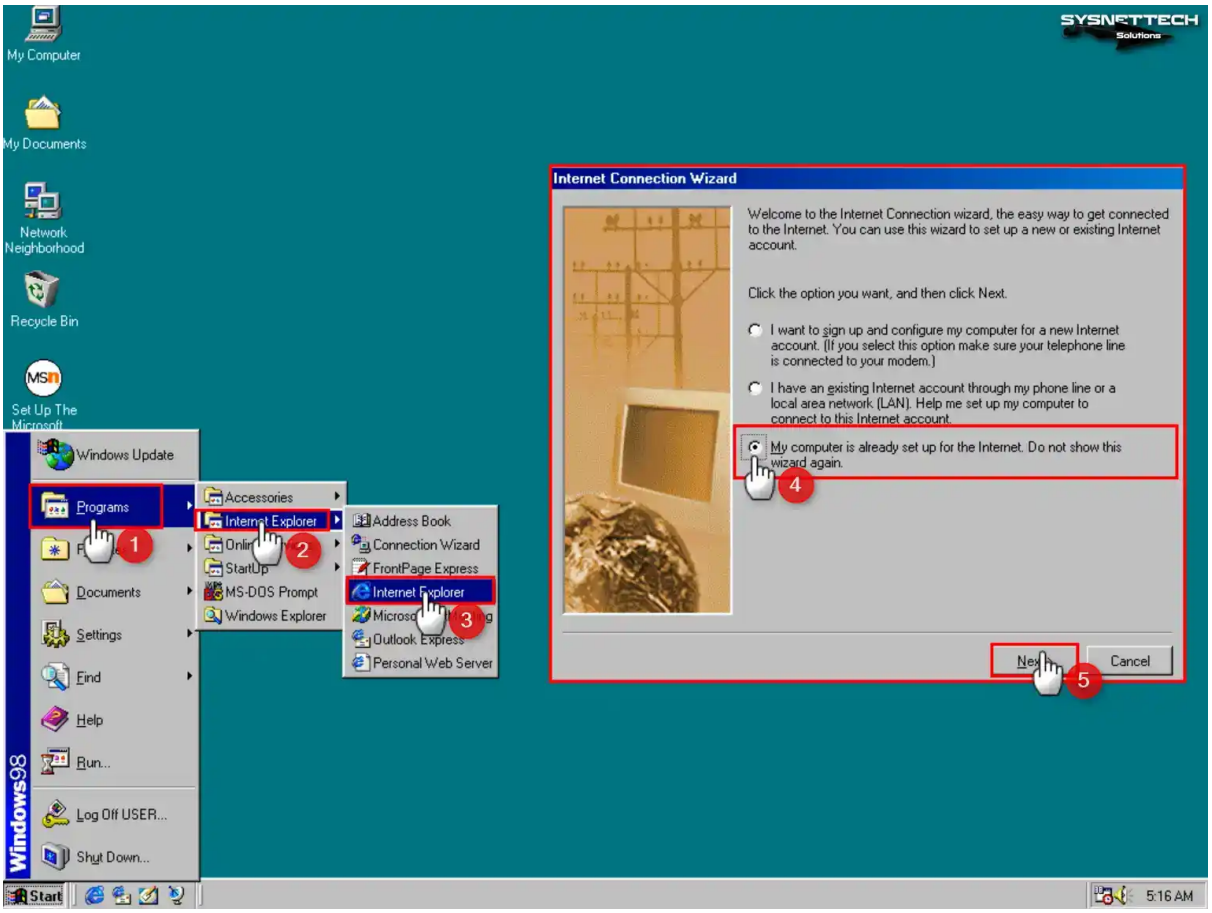
Step 1

Open Start / Programs / MS-DOS Prompt and test your Internet connection by pinging Google servers with the “ping 8.8.8.8” command.



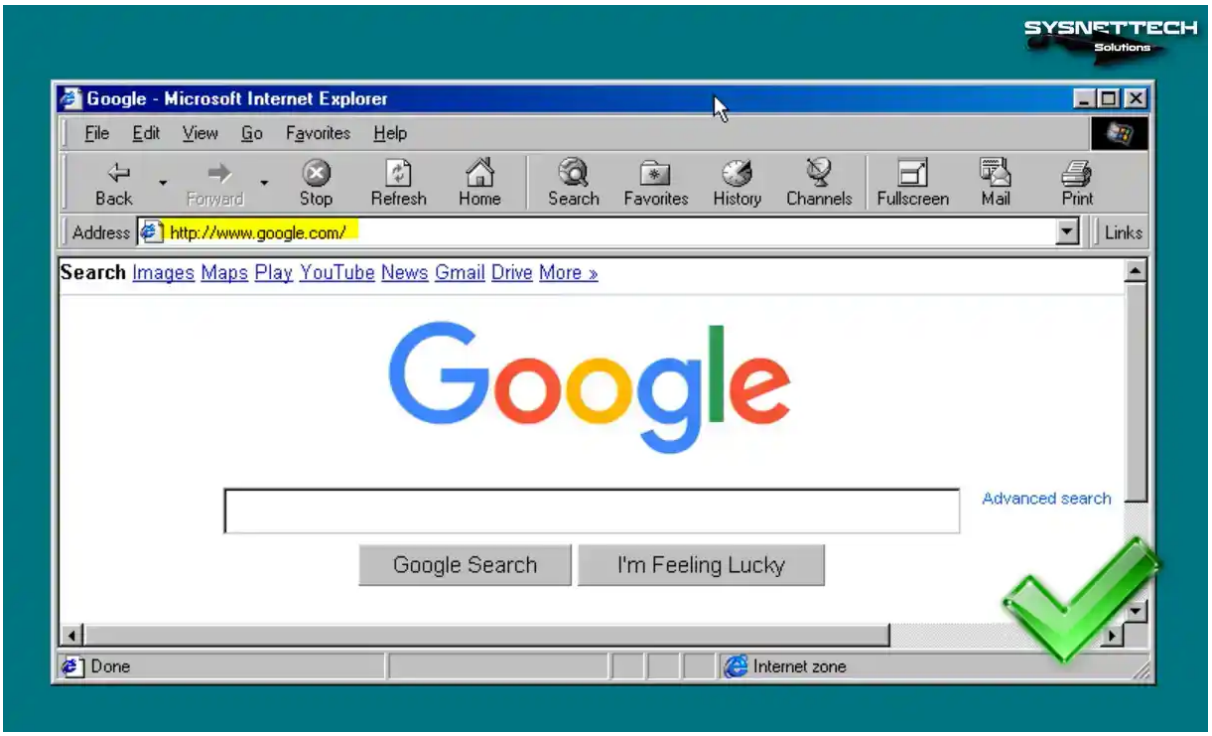
Step 2

After clicking the Start / Programs / Internet Explorer shortcut, when the Internet Connection Wizard window opens, Select the “My computer is already set up for the Internet. Do not show this wizard again.” option and click Next.


SYSNETTECH Solutions
My Computer
My Documents
Network Neighborhood
Recycle Bin
Set Up The Microsoft
Windows Update
Programs
Accessories
Internet Explorer
Address Book
Connection Wizard
FrontPage Express
StartUp
MS-DOS Prompt
Windows Explorer
Internet Explorer
Outlook Express
Personal Web Server
Documents
Settings
Find
Help
Run...
Log Off USER...
Shut Down...
Windows98
Start
5:16 AM
Internet Connection Wizard
Welcome to the Internet Connection wizard, the easy way to get connected to the Internet. You can use this wizard to set up a new or existing Internet account.
Click the option you want, and then click Next.
I want to sign up and configure my computer for a new Internet account. (If you select this option make sure your telephone line is connected to your modem.)
I have an existing Internet account through my phone line or a local area network (LAN). Help me set up my computer to connect to this Internet account.
My computer is already set up for the Internet. Do not show this wizard again.
Next
Cancel
1
2
3
4
5

Step 3

When the Internet Explorer web browser starts automatically, you can check your web connection by visiting the Google search engine.



Windows 98 SE (Second Edition) Driver Download

Windows 98 SE (Second Edition) ISO	https://archive.org/details/Win98SEwithPlus98ENG https://archive.org/details/windows-98-se-102-retail-upgrade
Display Driver (VBE Miniport – Standard PCI Graphics Adapter VGA)	https://archive.org/details/w98vbox Download - MEGA
USB Mass Storage Controller Driver (nusb36e-2694)	https://archive.org/details/w98vbox Download - MEGA
Windows 98 SE Fix CPU – Floppy Boot – (patcher9x-0.5-boot.ima)	https://archive.org/details/w98vbox https://github.com/JHRobotics/patcher9x/releases

Author: TolgaBagci

Original article: How to Install Windows 98 in VirtualBox 7.0 on Windows 11 (sysnettechsolutions.com)